1907
Windmills

TANKS

1908

W. E. CALDWELL CO.

LOUISVILLE, KY.

CITY WATER WORKS JOB AT VIRGINIA, MINN.

The illustration represents a 100,000 gallon hemispherical bottom steel tank erected on one of our 75 ft. latticed column steel towers. This is a type of outfit that is now being used extensively for water supply and fire protection for manufacturing plants, small towns, etc., and we are prepared to estimate upon erecting such jobs in any part of the country.

TWENTIETH ANNUAL EDITION — ONE MILLION COPIES

1908

W. E. CALDWELL, PRESIDENT. H. B. WINTERSMITH, VICE-PRESIDENT.
R. E. MILLER, SECRETARY.
ESTABLISHED 1877. INCORPORATED 1892.

FOREWORD

The many changes that are constantly occurring in the business fabric make it inevitable that this catalogue for the first time should fall into the hands of many new firms; to thousands of others it will come as an old acquaintance, if not a friend; to all that are now, or may be, interested in the question of Water Supply, we commend it as worthy of preservation.

Discount sheets will be furnished upon application, or net prices quoted where preferred. In the limited space at our disposal, we are unable to do much more than to furnish a price list of these goods—and not a complete one at that, as only the standard articles more generally used are shown. We build every variety of tank and all the fixtures and fittings used in connection with any kind of a tank or water supply job.

We have made a specialty for years of the use of Louisiana Red Gulf Cypress in our wooden tanks. This is recognized by engineers and architects, as well as experienced users, as being the ideal wood for tank purposes. It is a straighter growing timber, practically free of all knots, and will not warp and twist or shrink and swell like most tank woods. Its special claim to distinction, however, is its marvelous durability; and the fact that it will not impart any taste or taint or odor to liquids that come in contact with it, makes it far superior for storage tanks for cider, vinegar, fruit syrups and other special preparations. We can furnish tanks, however, of White Pine, Oregon Fir, or Yellow Pine. In addition, we construct galvanized steel tanks and heavy plate steel tanks as illustrated on pages twelve and thirteen of catalogue.

The designing and building of tank towers and of foundations on buildings for tanks is made a specialty by us; and our technical knowledge, coupled with the years of experience we have had, qualify us to handle any problems of this character whatever the engineering difficulties may be.

Our Tank Towers are of two general designs: One a Sectional Tower coupled with heavy sockets, and the other a Latticed Column Tower with the sections riveted together. The former design is furnished with either Tubular Columns or Angle Columns. All three are illustrated in the catalogue.

We, also, furnish an All-Wood tower and a Combination structure with wooden columns and struts and steel brace rods, as shown on pages thirty-two and thirty-four of catalogue. We often furnish plans for either of these towers where customers want to supply their own wood-work.

Our business extends into every part of the country, and we ship besides to Canada, Cuba, Mexico, Central and South America; and, in our thirty years experience, we have built up a reputation for furnishing the very best quality of work in this line and only ask one opportunity to satisfy any prospective purchaser that we can furnish him better goods, and cheaper goods in the long run, than he can get elsewhere. We have demonstrated this to the satisfaction of thousands of the largest concerns in the country, and the best evidence that we can offer to support this claim is the fact that two-thirds of our business last year came from or through the recommendation of old customers.

We take contracts to erect tanks and towers in any part of the United States, Canada or Mexico.

We also issue a Special Galvanized Tank Catalogue, and a Catalogue of Water Works Systems for Country Homes, and a sixty-four page book of Photographic Views with embossed cover that is a very handsome specimen of the printer's art—any, or all of which, we shall be glad to send to any address.

USE A CALDWELL OUTFIT AND GET THE BEST THAT MONEY CAN BUY.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

DIFFERENT TANK WOODS.

CYPRESS.

Cypress is everywhere recognized as the ideal wood for tank purposes. It is the most durable wood known and, being very straight grained, will warp and twist but little. It also shrinks and swells less than other woods, and it will not give off any taste or odor or color. For this reason it is especially suitable for cider and vinegar, fruit syrups, coloring dyes and other preparations that would be injured by any contamination from the wood.

Cypress Tanks are used almost exclusively for acids and chemicals, and for hot liquids, as nothing else will give as lasting service.

All of our Cypress is thoroughly kiln-dried or air-dried.

WHITE PINE.

White Pine is used almost altogether for Water Tanks, where something cheaper than Cypress is wanted, and for Brine Tanks in Pickle Works. This lumber has more knots than Cypress, but our tank plank is cut to our own specifications, and only thoroughly sound and tight knots are accepted, and these must have no black rims, so the value of the lumber is in no wise impaired for tank purposes. This material, when carefully selected stock, such as ours, is used, makes a good, serviceable tank that will last for years.

Our White Pine is all air-dried.

YELLOW PINE.

Of late years the use of Yellow Pine for Tanks has increased to a large extent, and particularly for Acid Tanks, Stuff Chests, etc., for Paper Mill work. While Cypress gives better results for hot acids, Yellow Pine is superior to it for cold or warm acids. It is also extensively employed in the manufacture of the ordinary Water Tank, and especially for large Tanks, for which stock required can be obtained more easily than in any other kind of lumber, and at a very little additional cost for lengths and thickness above the standard, which in Cypress and White Pine very considerably augments the cost.

We carry a large stock of Yellow Pine in lengths up to 30 feet, and in 2, 3, 4, 6 and 8 inch thicknesses.

The durability of Yellow Pine is fully equal to White Pine, and the grading of the lumber is just the same.

YELLOW POPLAR.

This wood, like Cypress, does not impart any taste, odor or color to liquids that come into contact with it.

Poplar is very close grained, and is used especially for tanks to hold medicines, whisky and other volatile liquids.

We are unusually careful and painstaking in making tanks for these purposes, knowing how important it is to have close, tight-fitting joints.

The quality of lumber employed is the same as in Cypress.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Bottom Diameter. ft.in.	Inside Depth. ft.in.	Number of Hoops.	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Bottom Diameter. ft.in.	Inside Depth. ft.in.	Number of Hoops.	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
158	3.0	3.0	3	220	$12 00	$2 40	1127	8.0	3.0	3	754	$29 04	$2 65
180	3.0	3.5	4	256	13 20	2 69	1294	8.0	3.5	4	840	32 40	3 45
216	3.6	3.0	4	277	14 40	2 69	1500	8.0	4.0	5	931	36 06	4 50
240	3.6	3.5	4	303	15 60	2 69	1656	8.0	4.5	5	989	38 22	4 50
321	4.0	3.5	4	361	18 24	2 69	2031	8.0	5.5	5	1096	42 60	4 50
406	4.6	3.5	4	402	19 86	2 69	2406	8.0	6.5	6	1248	48 18	5 30
587	5.0	4.0	4	505	22 20	2 86	2781	8.0	7.5	6	1372	52 86	5 55
648	5.0	4.5	4	543	24 66	2 86	637	8.6	1.5	2	615	23 58	1 85
712	5.6	4.0	4	566	26 28	3 20	849	8.6	2.0	2	675	25 80	1 85
788	5.6	4.5	4	624	27 60	4 00	1061	8.6	2.5	3	765	29 40	2 65
964	5.6	5.5	5	706	31 20	4 00	1273	8.6	3.0	3	825	31 68	2 65
317	6.0	1.5	2	363	18 00	1 60	1450	8.6	3.5	4	915	33 90	3 45
422	6.0	2.0	2	411	19 20	1 80	1697	8.6	4.0	4	982	37 80	3 70
527	6.0	2.5	3	476	21 60	2 65	1875	8.6	4.5	4	1038	38 46	3 70
632	6.0	3.0	3	520	24 60	2 65	2299	8.6	5.5	5	1190	45 84	4 50
720	6.0	3.5	4	586	27 00	3 45	2723	8.6	6.5	5	1314	50 52	4 75
845	6.0	4.0	4	645	28 80	4 00	3148	8.6	7.5	6	1462	56 28	5 55
934	6.0	4.5	4	694	30 60	4 00	3572	8.6	8.5	7	1616	62 28	6 35
1145	6.0	5.5	5	776	33 60	4 25	714	9.0	1.5	2	656	25 14	1 85
372	6.6	1.5	2	419	19 50	1 60	951	9.0	2.0	3	740	28 44	2 40
495	6.6	2.0	3	487	21 60	2 40	1188	9.0	2.5	3	804	30 84	2 40
618	6.6	2.5	3	535	23 70	2 40	1425	9.0	3.0	4	907	35 10	3 45
741	6.6	3.0	3	583	25 50	2 40	1623	9.0	3.5	4	971	37 44	3 45
848	6.6	3.5	4	656	27 60	3 20	1900	9.0	4.0	4	1035	39 84	3 45
993	6.6	4.0	4	714	30 30	3 20	2098	9.0	4.5	4	1104	42 42	3 70
1096	6.6	4.5	4	767	32 52	3 45	2577	9.0	5.5	5	1260	48 48	4 50
1344	6.6	5.5	5	887	34 80	4 25	3053	9.0	6.5	5	1394	53 58	4 75
1592	6.6	6.5	6	1010	39 78	5 05	3529	9.0	7.5	6	1553	59 76	5 55
431	7.0	1.5	2	446	20 40	1 60	4004	9.0	8.5	7	1711	65 94	6 35
575	7.0	2.0	2	496	21 90	1 60	795	9.6	1.5	2	726	27 78	1 85
719	7.0	2.5	3	570	23 70	2 40	1060	9.6	2.0	3	821	31 56	2 40
863	7.0	3.0	3	620	25 80	2 40	1320	9.6	2.5	3	889	34 08	2 40
983	7.0	3.5	4	694	28 20	3 20	1590	9.6	3.0	3	964	36 96	2 65
1151	7.0	4.0	4	751	31 86	3 45	1811	9.6	3.5	4	1066	41 04	3 45
1271	7.0	4.5	4	807	34 26	3 45	2120	9.6	4.0	4	1134	43 56	3 45
1559	7.0	5.5	5	935	36 00	4 25	2348	9.6	4.5	4	1223	46 98	3 70
1847	7.0	6.5	5	1031	41 40	4 50	2871	9.6	5.5	5	1385	53 34	4 75
495	7.6	1.5	2	509	21 60	1 60	3402	9.6	6.5	6	1554	59 94	5 55
660	7.6	2.0	3	589	23 70	2 40	3933	9.6	7.5	6	1690	65 04	5 75
825	7.6	2.5	3	643	25 20	2 40	4462	9.6	8.5	7	1859	71 64	6 35
990	7.6	3.0	3	697	27 00	2 40	4992	9.6	9.5	7	2002	77 10	6 60
1128	7.6	3.5	4	778	30 00	3 20	881	10.0	1.5	2	765	29 28	1 85
1322	7.6	4.0	4	833	36 18	3 45	1175	10.0	2.0	2	837	31 98	1 85
1460	7.6	4.5	4	893	37 80	3 45	1468	10.0	2.5	3	945	36 30	2 65
1790	7.6	5.5	5	1032	42 66	4 50	1762	10.0	3.0	3	1017	38 70	2 65
2120	7.6	6.5	5	1140	45 12	4 50	2006	10.0	3.5	4	1124	43 26	3 45
563	8.0	1.5	2	552	21 18	1 85	2348	10.0	4.0	4	1202	46 20	3 70
751	8.0	2.0	2	610	23 34	1 85	2592	10.0	4.5	4	1274	48 90	3 70
939	8.0	2.5	3	689	26 46	2 40							

List prices are for both 1½ and 2 inch tanks, but we make a better discount on the 1½ inch, which we recommend as ample thickness for tanks up to 10 feet diameter and 10 feet high, when hooped as heavy as we hoop our tanks.

We also have a printed set of list prices for tanks 10 to 20 feet diameter for both 2½ and 3 inch thicknesses. Write for it.

In ordering always state whether draw lugs for the hoops are wanted. They should be used for best results.

Prices given are based on flat hoops. Round hoops cost more.

The capacities, which are guaranteed to be correct, are based on tanks having straight staves, but unless otherwise ordered we make them with a slight taper.

The shipping weights are guaranteed as correct for 2 inch tanks. Deduct 20 per cent. for weights of 1½ in.

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Bottom Diameter. ft.in.	Inside Depth. ft.in.	Number of Hoops.	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Insids Bottom Diameter. ft.in.	Inside Depth. ft.in.	Number of Hoops.	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
3182	10.0	5.5	5	1454	$55 92	$4 50	2115	12.0	2.5	3	1226	$46 98	$2 65
3770	10.0	6.5	5	1608	61 80	4 75	2538	12.0	3.0	3	1318	50 46	2 90
4357	10.0	7.5	6	1784	68 64	5 55	2391	12.0	3.5	3	1414	54 12	3 15
4945	10.0	8.5	7	1971	75 96	6 60	3384	12.0	4.0	4	1534	58 92	3 70
5532	10.0	9.5	8	2158	83 22	7 40	3737	12.0	4.5	4	1620	62 10	3 70
972	10.6	1.5	2	881	33 66	1 85	4582	12.0	5.5	5	1843	70 86	4 75
1295	10.6	2.0	2	962	36 72	2 10	5428	12.0	6.5	6	2065	80 16	5 80
1609	10.6	2.5	2	1036	39 48	2 10	6274	12.0	7.5	7	2280	87 96	6 60
1943	10.6	3.0	3	1140	43 62	2 65	7110	12.0	8.5	7	2494	96 30	7 60
2213	10.6	3.5	4	1251	48 06	3 45	7956	12.0	9.5	8	2682	103 44	7 85
2590	10.6	4.0	4	1325	50 88	3 45	8802	12.0	10.6	9	2898	118 26	8 65
2860	10.6	4.5	5	1443	55 62	4 50	9658	12.0	11.5	9	3091	119 02	9 10
3508	10.6	5.5	5	1591	61 14	4 50	1377	12.6	1.5	2	1150	43 92	2 10
4155	10.6	6.5	6	1783	68 70	5 55	1836	12.6	2.0	3	1289	49 38	2 65
4803	10.6	7.5	7	1968	75 90	6 35	2295	12.6	2.5	3	1369	52 38	2 65
5452	10.6	8.5	7	2123	81 78	6 60	2754	12.6	3.0	3	1466	56 10	2 90
6100	10.6	9.5	8	2314	89 22	7 65	3136	12.6	3.5	3	1563	59 82	3 15
1066	11.0	1.5	2	933	35 70	2 10	3672	12.6	4.0	4	1696	65 10	3 70
1421	11.0	2.0	2	1011	38 58	2 10	4053	12.6	4.5	4	1784	68 40	3 70
1777	11.0	2.5	3	1120	42 90	2 65	4971	12.6	5.5	5	2003	76 98	4 75
2132	11.0	3.0	3	1198	45 84	2 65	5890	12.6	6.5	7	2276	87 90	6 60
2428	11.0	3.5	4	1307	50 16	3 20	6808	12.6	7.5	7	2452	94 50	6 60
2843	11.0	4.0	4	1392	53 40	3 45	7726	12.6	8.5	8	2672	103 08	7 40
3139	11.0	4.5	4	1470	56 34	3 45	8644	12.6	9.5	8	2865	110 46	7 85
3850	11.0	5.5	5	1679	64 56	4 75	9638	12.6	10.6	9	3084	125 64	8 65
4561	11.0	6.5	6	1877	72 30	5 55	10481	12.6	11.5	9	3279	126 48	9 10
5272	11.0	7.5	7	2079	80 22	6 60	5378	13.0	5.5	6	2138	82 44	5 80
5982	11.0	8.5	8	2274	87 84	7 40	6370	13.0	6.5	6	2322	89 40	5 80
6694	11.0	9.5	8	2438	94 04	7 65	7363	13.0	7.5	7	2556	98 52	6 60
7405	11.0	10.6	8	2632	107 52	8 45	8356	13.0	8.5	7	2744	106 20	6 80
1165	11.6	1.5	2	976	37 32	2 10	9349	13.0	9.5	9	3045	117 78	9 10
1553	11.6	2.0	2	1058	40 38	2 10	10120	13.0	10.6	9	3250	132 60	9 55
1942	11.6	2.5	3	1164	44 58	2 40	11333	13.0	11.5	10	3481	134 64	10 55
2331	11.6	3.0	3	1246	47 64	2 40	12410	13.0	12.6	10	3684	149 34	11 00
2654	11.6	3.5	3	1335	51 00	2 65	5800	13.6	5.5	6	2187	84 30	5 55
3107	11.6	4.0	4	1457	55 86	3 45	6870	13.6	6.5	6	2388	91 92	5 80
3430	11.6	4.5	4	1548	59 40	3 70	7940	13.6	7.5	7	2984	101 04	6 60
4207	11.6	5.5	5	1760	67 68	4 75	9010	13.6	8.5	7	2816	108 36	6 80
4985	11.6	6.5	6	1976	76 08	5 55	10080	13.6	9.5	9	3129	121 02	9 10
5762	11.6	7.5	7	2176	83 94	6 60	11150	13.6	10.6	10	3378	138 06	10 35
6539	11.6	8.5	8	2380	91 88	7 40	12220	13.6	11.5	10	3580	138 54	10 55
7316	11.6	9.5	8	2552	98 40	7 65	13290	13.6	12.6	10	3778	153 30	11 00
8093	11.6	10.6	9	2756	112 50	8 45	6237	14.0	5.5	5	2262	87 00	5 20
1269	12.0	1.5	2	1020	39 00	2 10	7388	14.0	6.5	6	2518	97 02	6 20
1692	12.0	2.0	3	1140	43 74	2 65	8540	14.0	7.5	7	2735	106 63	7 00
							9691	14.0	8.5	8	2819	116 58	8 05

The above prices are based on tanks made of 2 inch material, which we can guarantee as ample thickness for tanks up to 20 feet in diameter and 20 feet high, when made of Cypress and as heavily hooped as all our tanks are.

We also have a printed set of list prices for tanks 10 to 20 feet diameter for both 2½ and 3 inch thicknesses. Write for it.

In ordering always state whether draw lugs for the hoops are wanted. They should be used for best results.

Prices given are based on flat hoops. Round hoops cost more.

The capacities, which are guaranteed to be correct, are based on tanks having straight staves, but unless otherwise ordered we make them with a slight taper.

The shipping weights are guaranteed correct.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

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10843	14.0	9.5	9	3265	$126 18	$8 85	10264	16.6	6.5	7	3283	$126 66	$7 25
11995	14.0	10.6	9	3592	146 94	9 55	11864	16.6	7.5	8	3611	139 68	8 95
13146	14.0	11.5	10	3796	147 12	11 00	13464	16.6	8.5	8	3854	148 86	9 15
14298	14.0	12.6	10	4080	165 90	12 35	15064	16.6	9.5	8	4178	161 70	9 60
15449	14.0	13.5	10	4280	165 90	12 35	16660	16.6	10.6	9	4510	183 66	11 35
6691	14.6	5.5	5	2452	94 20	5 20	18264	16.6	11.5	9	4799	186 18	12 00
7925	14.6	6.5	6	2716	104 52	6 20	19864	16.6	12.6	11	5150	209 04	13 60
9160	14.6	7.5	7	2970	114 44	7 00	21464	16.6	13.5	11	5385	209 04	13 60
10395	14.6	8.5	8	3234	124 80	8 05	23064	16.6	14.6	11	5626	226 98	13 85
11631	14.6	9.5	9	3488	134 70	8 85	24664	16.6	15.5	13	5985	232 62	15 90
12866	14.6	10.6	9	3820	155 88	9 55	9197	17.0	5.5	5	2956	113 64	4 95
14102	14.6	11.5	10	4035	156 30	11 00	10894	17.0	6.5	7	3382	131 04	7 25
15326	14.6	12.6	10	4326	174 66	11 90	12592	17.0	7.5	7	3627	140 22	8 15
16573	14.6	13.5	10	4532	175 56	12 35	14290	17.0	8.5	8	3933	152 23	9 15
7160	15.0	5.5	5	2530	97 08	4 95	15988	17.0	9.5	9	4273	165 84	10 40
8412	15.0	6.5	6	2820	108 54	6 20	17827	17.0	10.6	9	4556	185 82	11 35
9804	15.0	7.5	7	3093	120 78	7 25	19384	17.0	11.5	9	4865	188 88	12 00
11126	15.0	8.5	8	3386	130 86	8 95	21233	17.0	12.6	9	5216	211 92	12 00
12448	15.0	9.5	8	3696	143 23	8 95	22639	17.0	13.4	11	5457	211 92	13 60
13778	15.0	10.6	9	3917	159 60	9 35	24619	17.0	14.6	12	5788	234 06	15 10
15090	15.0	11.5	9	4130	160 38	9 95	26035	17.0	15.4	13	6085	236 64	15 90
16413	15.0	12.6	10	4394	177 84	11 00	27733	17.0	16.6	14	6632	268 50	16 70
17735	15.0	13.5	11	4730	183 36	12 70	29431	17.0	17.4	15	6942	271 62	17 50
19057	15.0	14.6	12	4943	199 80	13 75	9746	17.6	5.5	5	3113	119 64	4 95
7645	15.6	5.5	5	2599	99 79	4 95	11545	17.6	6.5	7	3554	137 64	7 25
9057	15.6	6.5	6	2884	111 00	6 20	13344	17.6	7.5	7	3798	146 82	8 15
10468	15.6	7.5	7	3165	122 04	7 25	15143	17.6	8.5	7	4114	160 68	9 15
11880	15.6	8.5	7	3476	134 40	8 95	16943	17.6	9.5	8	4416	170 94	9 60
13390	15.6	9.5	8	3789	148 32	8 95	18892	17.6	10.6	9	4764	193 86	11 35
14702	15.6	10.6	8	3942	160 38	8 95	20541	17.6	11.5	9	5082	196 98	12 00
16114	15.6	11.5	9	4226	163 26	9 95	22490	17.6	12.6	9	5328	215 58	12 00
17526	15.6	12.6	10	4502	182 58	11 30	23990	17.6	13.4	11	5690	220 98	13 60
18937	15.6	13.5	11	4840	187 80	12 70	26088	17.6	14.6	12	5926	243 60	15 10
20349	15.6	14.6	12	5116	206 76	13 75	27588	17.6	15.4	13	6334	246 30	15 90
8147	16.0	5.5	5	2686	103 08	4 95	29387	17.6	16.6	14	6970	279 18	16 70
9651	16.0	6.5	7	3048	117 72	7 25	31186	17.6	17.4	15	7222	282 42	17 50
11155	16.0	7.5	8	3370	130 50	8 95	10312	18.0	5.5	6	3372	130 50	8 15
12659	16.0	8.5	8	3604	139 80	9 15	12215	18.0	6.5	7	3689	142 86	8 95
14163	16.0	9.5	8	3922	153 48	9 60	14118	18.0	7.5	8	4091	159 00	9 85
15667	16.0	10.6	9	4240	173 22	11 35	16021	18.0	8.5	9	4433	172 50	11 10
17171	16.0	11.5	9	4529	177 12	12 00	17924	18.0	9.5	9	4689	182 10	11 10
18675	16.0	12.6	11	4853	197 46	13 60	19827	18.0	10.6	9	5040	205 56	12 00
20179	16.0	13.5	11	5080	197 46	13 60	21730	18.0	11.5	10	5370	208 86	13 05
21683	16.0	14.6	11	5330	215 52	14 00	23475	18.0	12.6	11	5786	235 26	17 00
23187	16.0	15.5	13	5678	220 98	15 90	25378	18.0	13.4	11	6041	235 26	17 00
8664	16.6	5.5	5	2905	111 36	4 95	27281	18.0	14.6	11	6298	254 46	17 00

The above prices are based on tanks made of 2 inch material, which we can guarantee as ample thickness for tanks up to 20 feet in diameter and 20 feet high, when made of Cypress and as heavily hooped as all our tanks are.

We also have a printed set of list prices for tanks 10 to 20 feet diameter for both 2½ and 3 inch thicknesses. Write for it.

In ordering always state whether draw lugs for the hoops are wanted. They should be used for best results.

Prices given are based on flat hoops. Round hoops cost more.

The capacities, which are guaranteed to be correct, are based on tanks having straight staves, but unless otherwise ordered we make them with a slight taper.

The shipping weights are guaranteed correct.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Diam. ft.in.	Inside Depth. ft.in.	Number of Hoops.	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Diam. ft.in.	Inside Depth. ft.in.	Number of Hoops.	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
29184	18.0	15.4	12	6750	$263 34	$18 05	12101	19.6	5.5	6	3871	$150 24	$ 8 00
31087	18.0	16.6	13	7083	286 38	19 30	14335	19.6	6.5	7	4305	167 76	9 70
32990	18.0	17.4	13	7408	289 08	19 75	16569	19.6	7.5	8	4673	183 78	10 95
10891	18.6	5.5	6	3580	138 36	7 35	18803	19.6	8.5	8	5026	196 08	12 00
12902	18.6	6.5	7	3901	150 90	7 95	21037	19.6	9.5	8	5367	209 70	14 25
14912	18.6	7.5	8	4309	167 34	9 85	23271	19.6	10.6	9	5656	230 76	14 70
16923	18.6	8.5	9	4655	180 96	11 10	25502	19.6	11.5	9	6109	239 22	17 00
18934	18.6	9.5	9	4913	190 62	11 10	27550	19.6	12.6	10	6377	259 14	17 00
20944	18.6	10.6	9	5254	213 90	12 00	29784	19.6	13.4	10	6653	259 14	17 00
22954	18.6	11.5	10	5591	217 26	13 05	32018	19.6	14.6	11	6967	281 58	17 00
24796	18.6	12.6	11	6018	244 38	17 00	34252	19.6	15.4	12	7539	294 90	19 50
26806	18.6	13.4	11	6280	244 38	17 00	36486	19.6	16.6	12	7908	320 16	20 75
28816	18.6	14.6	11	6534	263 76	17 00	38726	19.6	17.4	13	8246	323 22	21 25
30826	18.6	15.4	12	7000	272 94	18 05	40954	19.6	18.6	14	8610	347 34	22 45
32836	18.6	16.6	13	7416	299 58	19 95	12729	20.0	5.5	6	4036	157 02	8 00
34846	18.6	17.4	14	7754	303 00	21 00	15079	20.0	6.5	7	4347	168 90	9 25
11488	19.0	5.5	6	3780	146 58	8 00	17429	20.0	7.5	8	4792	186 84	10 95
13609	19.0	6.5	8	4217	164 28	10 30	19779	20.0	8.5	8	5072	197 34	10 95
15730	19.0	7.5	8	4485	174 36	10 30	22130	20.0	9.5	8	5352	207 84	10 95
17852	19.0	8.5	8	4830	187 80	10 95	24480	20.0	10.6	9	5804	236 70	14 25
19972	19.0	9.5	9	5176	201 36	10 95	26830	20.0	11.5	9	6160	240 00	14 70
22093	19.0	10.6	9	5530	225 42	14 75	28985	20.0	12.6	10	6520	264 72	15 30
24212	19.0	11.5	10	5890	229 50	15 95	31334	20.0	13.4	10	6885	268 38	15 95
26158	19.0	12.6	10	6156	249 60	15 95	33684	20.0	14.6	11	7245	293 16	17 00
28279	19.0	13.4	11	6504	253 08	16 75	36035	20.0	15.4	12	7734	302 40	19 50
30399	19.0	14.6	11	6770	273 18	16 75	38385	20.0	16.6	12	8010	323 40	19 50
32520	19.0	15.4	12	7366	287 82	19 50	40725	20.0	17.4	13	8459	329 64	21 20
34641	19.0	16.6	13	7723	312 00	20 75	43085	20.0	18.6	14	8834	356 22	22 05
36762	19.0	17.4	13	8057	314 88	21 20	45435	20.0	19.4	15	9281	362 46	24 15
38883	19.0	18.6	14	8442	340 38	22 45							

NOTE.—These prices on all tanks up to and including 20 feet in diameter are based on 2 inch thick material; all tanks 22 feet in diameter and over are based on 2½ and 3 inch thick material. All tanks above 20,000 gallons capacity are ordinarily made of thicker material than 2 inch. However, we often make tanks 20 feet diameter and 20 feet high of 2 inch Cypress.

15402	22.0	5.4	5	7773	$294 36	$12 60	58657	24.0	17.4	14	18582	$706 10	$56 00
18246	22.0	6.4	6	8496	320 28	15 60	65426	24.0	19.4	16	20590	796 13	70 00
21090	22.0	7.4	7	9279	348 71	19 60	72194	24.0	21.4	17	22207	874 10	77 00
23933	22.0	8.4	8	9953	379 72	21 20	78962	24.0	23.4	19	23926	958 37	86 00
26777	22.0	9.4	8	10579	409 28	24 60	60897	26.0	15.4	12	18904	705 61	70 50
29620	22.0	10.6	9	11332	441 90	25 00	68840	26.0	17.4	14	21213	800 11	94 50
32464	22.0	11.4	9	11956	445 26	27 00	76784	26.0	19.4	16	23261	890 12	111 00
35071	22.0	12.6	10	12680	491 93	30 00	84727	26.0	21.4	17	25060	973 66	123 00
37914	22.0	13.4	10	13329	494 04	32 00	92761	26.0	23.4	19	27031	1067 92	138 00
40758	22.0	14.6	11	14184	545 41	38 00	70627	28.0	15.4	14	21997	829 63	100 50
43601	22.0	15.4	12	14878	550 02	40 00	79840	28.0	17.4	16	24130	921 76	116 50
46445	22.0	16.6	13	15986	622 18	52 00	89052	28.0	19.4	18	26212	1014 96	130 50
49289	22.0	17.4	14	16773	630 00	56 00	98264	28.0	21.4	19	28133	1105 98	141 00
52132	22.0	18.6	15	17683	698 59	63 00	107476	28.0	23.4	20	30149	1203 22	154 50
54976	22.0	19.4	16	18628	712 69	70 00	81077	30.0	15.4	14	23916	915 73	100 50
57819	22.0	20.6	17	19346	777 18	73 00	91653	30.0	17.4	16	26137	966 54	115 50
60663	22.0	21.4	17	20120	784 24	77 00	102228	30.0	19.4	18	28408	1114 16	130 50
45121	24.0	13.4	10	15002	563 23	35 00	112803	30.0	21.4	19	30555	1214 44	144 00
51889	24.0	15.4	12	16776	627 55	45 00	123379	30.0	23.4	21	32670	1317 92	157 50

The above capacities are based on tanks having straight staves, but unless otherwise ordered we usually make them with a slight taper.

We guarantee the capacities as above to be correct. We guarantee weights given to be correct.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

FACTORY MUTUAL TANKS.

These prices are for Tanks built to suit the requirements of The Factory Mutual Insurance Companies. Their specifications require that tanks shall be built of one particular size for a given capacity and constructed of 2½ inch material for 20,000 gallons and under, and of 3 inch material if over 20,000 gallons. The hooping must also be of a certain standard, and likewise the Tank Covers or Roofs, etc., where these are supplied.

We give prices for the Tanks alone, and also prices which include the Tank Roof with Cypress Shingles to cover it over, and with a Flat Ceiling across the top of Tank to protect it from freezing—and a Wood Ladder inside the Tank and an Iron Ladder outside—also an Indicator, Gauge and Float, and Sub-joists or Dunnage for the bottom of Tank to rest upon.

Gallons.	Inside Diameter.	Inside Depth.	No. Round Hoops.	Shipping Weight.	Price, Complete.	Same Tank with Octagonal Cover, Shingles, Flat Cover, Ladders, Indicator and Dunnage.	Shipping Weight.	Price, Complete.
	ft. in.	ft. in.		lbs.		Gals.	lbs.	
5000	10.0	11.4	10	3876	$151 65	5000	5639	$219 37
7500	11.6	11.4	10	4535	176 55	7500	7043	262 00
10000	13.6	11.4	11	5475	216 20	10000	8799	318 93
12000	13.6	13.4	14	6274	250 15	12000	9598	354 26
15000	14.6	13.4	14	6952	275 40	15000	10282	399 88
20000	15.6	15.4	16	8514	341 65	20000	12459	471 08
25000	17.6	15.4	16	11470	453 65	25000	16357	605 47
30000	18.0	17.4	20	13426	552 75	30000	18413	707 33
40000	19.6	19.4	22	16598	708 38	40000	22483	892 66
50000	22.0	19.4	23	19580	840 70	50000	26729	1056 56
60000	24.0	19.4	23	22475	999 10	60000	31322	1257 88
75000	24.6	23.4	31	28243	1317 90	75000	37090	1629 40
100000	28.6	23.4	34	35077	1655 60	100000	49727	2147 22

Write for Discounts.

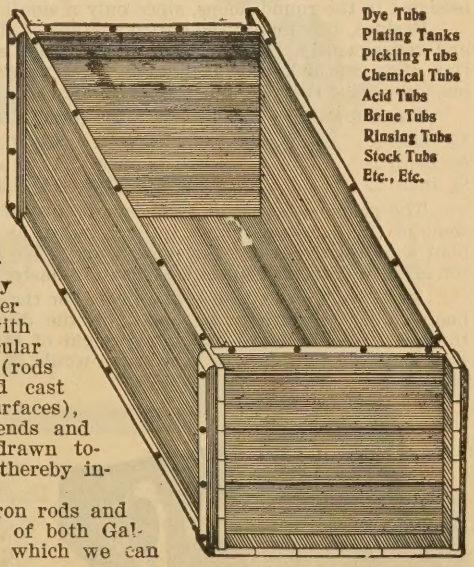
RECTANGULAR TANKS.

We make Rectangular Tanks and also Tanks elliptical in form, of any required dimensions. These Tanks are extensively used in Woolen and Cotton Mills, Mines, Chemical Works, Tin Plate, Nail and Rolling Mills, Ice Factories, Breweries, etc, etc.

Our Rectangular Tanks are all thoroughly constructed and finished. Just as much pains is taken with the smaller sizes as with the larger. They are built of dry lumber of proper thickness, are heavily rodded with both horizontal and perpendicular rods at proper intervals (rods being supplied with nuts and cast washers that cover large surfaces), so that the joints in sides, ends and bottoms may be thoroughly drawn together and a water-tight tank thereby insured.

We generally furnish plain iron rods and washers, but we carry a stock of both Galvanized Iron and Brass Rods, which we can supply where required.

Write for price on Rectangular Tanks of any size wanted.



Dye Tubs
Plating Tanks
Pickling Tubs
Chemical Tubs
Acid Tubs
Brine Tubs
Rinsing Tubs
Stock Tubs
Etc., Etc.

We also build these Tanks with partitions.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

THE HOOPING OF TANKS.

The hooping of a tank is the most important point about its construction, for upon the strength of the hoops depends the safety of the tank.

The very best quality of material may be put into the tank, it may be manufactured in a first-class manner and erected properly, and all this avail nothing if the hoops are not strong enough to hold it together against the weight and pressure of the water.

There should, of course, be sufficient strength in the hoops not only just to hold against the pressure, but to allow a proper margin or factor of safety, which should be not less than four to one; in other words, if the tensile strength of the steel is estimated at 60,000 pounds, the hoops furnished should be of such a number and size that when properly spaced on the tank, no more than 15,000 pounds stress per square inch of section should come on any hoop.

It may be a strong statement to make, but it is true, nevertheless, that a great many tank manufacturers are not able to calculate the size of hoops required for a tank, and have to depend altogether upon their general ideas of about what seems the proper number and size to use, and this, unfortunately, does not, by any means, apply to just the small firms that build tanks.

Under these circumstances, a desire to meet the views of prospective purchasers as to price offers a strong temptation to such a manufacturer to conclude he will be safe in furnishing hoops a little lighter or fewer in number than he himself considers to be safe, which is only another way of pointing out the advisability of dealing with thoroughly responsible and competent manufacturers, as you then will run no risk of this kind.

The tendency toward the use of round hoops is increasing at a rapid rate, as their superiority is becoming more widely known and better appreciated. This style of hoop is several times as thick as a flat hoop of the same weight, and there is consequently several times the metal to rust through before the hoop gives out; moreover, since the corrosion of hoops is principally from the inside, where the band bears on the staves, the point of attack is materially lessened in the round hoops, since only a small part of it bears on the tank.

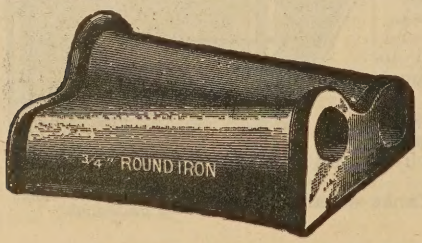
Besides, practically the entire surface of the round hoop can be examined, and consequently, the condition of the hoops easily determined, and, in addition, they can be kept well painted, whereas, flat hoops can be painted only on one side, after they are put on the tank.

The allowable working strain for round hoops is given below:

½ inch	1,650 pounds.	⅞ inch	6,090 pounds.
⅝ inch	3,315 pounds.	1 inch	8,355 pounds.
¾ inch	4,230 pounds.	1⅛ inch	10,350 pounds.

The proper spacing of the hoops is also of great importance, as otherwise some of the hoops may have to bear twice the strain they are intended to. A plan should be obtained for the spacing. We have these hoop plans made up for all sizes of tanks up to 30 feet in diameter.

As threads are cut on round hoops for the draw lugs, the strength of these hoops must necessarily be based on the diameter of the hoops under the threads, and, therefore, the total weight of the round hoops required for any tank must be considerably more than would be necessary in flat hoops for that same tank.



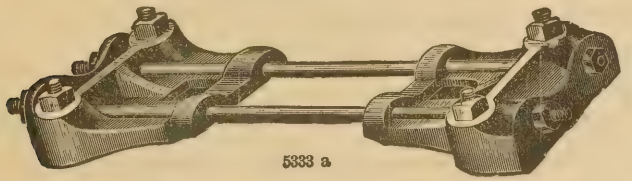
MALLEABLE IRON ROUND LUGS.

½ inch	each,	$	.30
⅝ inch	"		.40
¾ inch	"		.50
⅞ inch	"		.60
1 inch	"		.80

Write for Discounts.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

THE CALDWELL PATENT LUG.



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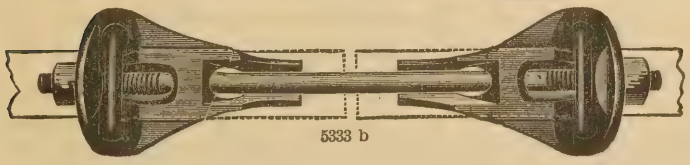

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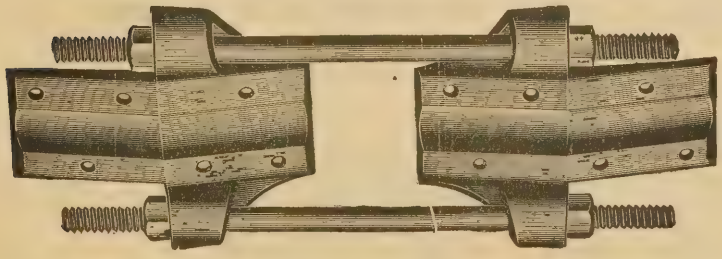
THE CALDWELL RIVETED LUG.



PRICE LIST OF THE

Tecktonius and Caldwell Patent and Riveted Lugs.

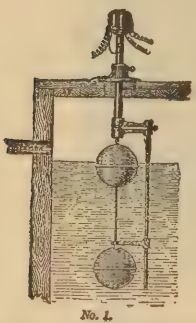
1½	inch	Patent	Lugs	.....	Per	pair,	$0 40	3½	inch	Patent	Lugs	.....	Per	pair,	$1 50
2	"	"	"	.....	"	"	60	4	"	"	"	.....	"	"	2 00
2½	"	"	"	.....	"	"	80	5	"	"	"	.....	"	"	3 00
3	"	"	"	.....	"	"	1 00	6	"	"	"	.....	"	"	3 50

Write for Discounts.

Why should Patent Lugs be used on all Tanks?
Because of the convenience in tightening the hoops at will.

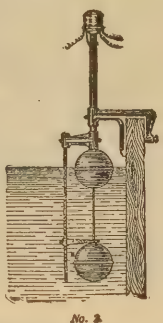
WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

CALDWELL TELL-TALE FLOATS.



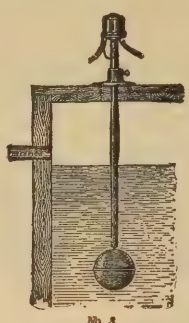
No. 1.

High and Low Water Floats for Closed Tanks.



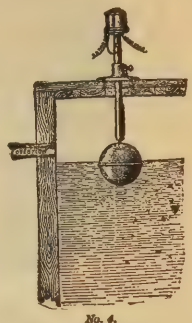
No. 2.

High and Low Water Floats for Open Tanks.



No. 3.

Low Water Floats.



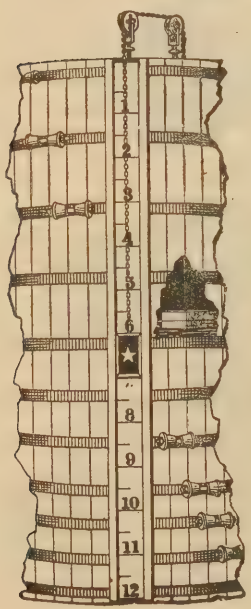
No. 4.

High Water Floats.

PRICE LIST.

No. 1.	For High and Low, closed tank	$12.00
No. 2.	For High and Low, open tank	12.00
No. 3.	For Low Water, open or closed tank	7.00
No. 4.	For High Water, open or closed tank	7.00
Extra lengths on single or double floats	Per foot,	40

Write for discounts; also special, illustrated, descriptive circular.



State distance you want floats below top end of stave.

INDICATOR, GAUGE, AND FLOAT.

This gauge is laid off in feet and decimals of a foot, having a white background with three-inch figures painted thereon in black, and is furnished with a brass chain for attaching the sliding gauge and a galvanized iron float with pulleys over which the chain runs.

This is neat and substantial and inexpensive.

PRICE LIST.

For Tanks	6 ft. and less			in height		$4.80
For Tanks	7 ft.	to	8 ft.	in height	(inclusive)	6.00
"	9 "	"	10	"	"	7.80
"	11 "	"	14	"	"	10.20
"	15 "	"	18	"	"	13.20
"	19 "	"	20	"	"	15.60
"	21 "	"	24	"	"	18.00
"	25 "	"	26	"	"	21.60

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

THE DURABILITY OF CYPRESS.

FROM U. S. GOVERNMENT CIRCULAR No. 19.

Department of Agriculture, Division of Forestry, 1898.

"One of the most highly valued properties of Cypress is its great durability. Rived Shingles of Cypress are claimed to have endured over eighty years in Philadelphia and Baltimore. Posts and piling of Cypress are sought for their durability.

Cypress Excels for Tank Material,

and of late, builders of greenhouses, with whom a Hemlock or Oak board decays in one to three years, are beginning to use Cypress for frames and partitions. In the woods old Cypress logs endure apparently for centuries —and a great deal of good shingle timber has been dug out of the ground apparently as sound as ever, and certainly as much appreciated for this purpose as logs of standing trees.

"IN GENERAL IT IS PROBABLY SAFE TO SAY THAT THE HEARTWOOD OF CYPRESS LASTS TWO OR THREE TIMES AS LONG AS THE HEARTWOOD OF PINE."

FROM THE SCIENTIFIC AMERICAN

Of December, 1891:

"Cypress timber, owing to its beautiful finish and durability and lightness, has long been in favor in the Gulf Coast States, and is fast growing in favor in the more northern States, especially among those who have tested and know its many good qualities.

"Cypress is especially adapted to building Tanks, Tubs, and Vats, and when used for such purposes it never will decay.

"It also makes better Sash, Doors, Blinds, and Frames than White Pine, and many railroads use it for water tanks. It stands the weather better than White Pine; does not warp or twist, and does not shrink or swell.

"No lumber in the world equals it for tanks, vats, siding, or weather boards, exposed floors or shingles. Siding can be used and not painted, and will last fifty years.

"The durability of Cypress is illustrated by the examples of roofs in Mobile and New Orleans in good order laid sixty years ago."

FROM THE NORTHWESTERN LUMBERMAN

Of June, 1894:

"The phenomenal durability of cypress is believed to proceed from the presence in its natural chemical composition of an acid having the active qualities of creosote. There is, of course, some natural cause for its demonstrated proof against the ravages of water, air, and time, and that cause is equally, of course, of a chemical character. In other words, nature seems to have treated Cypress in a manner somewhat corresponding, in its results, at least, to that of the artificial use of creosote as a preservative."

FROM THE TRADESMAN

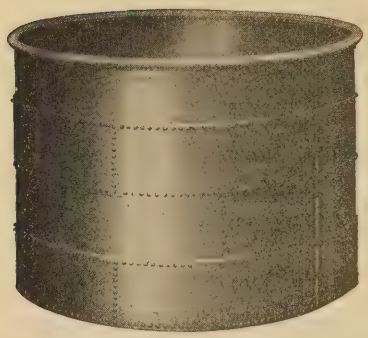
Of January, 1899:

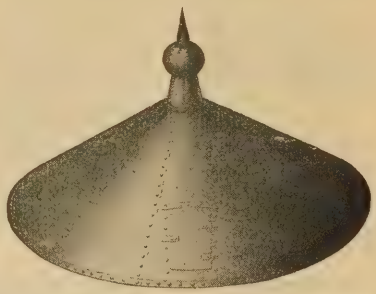
"The value of various woods for tanks has been discussed to its capacity by people of experience, both past and present, and so thorough have these discussions been that the information gained has proved of advantage, not only to the manufacturer, but the buyer, as well. The woods more commonly used are Pine, Poplar, Redwood, Cedar, and Cypress. Comparisons and tests are strongly in favor of Louisiana Gulf Cypress."

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

HEAVY STEEL TANKS AND COVERS

For Storage of Water, Oil, Turpentine, Etc.





We also build these Tanks in Rectangular, Elliptical, and other shapes.

GALS.	DIAMETER FT.–IN.	HEIGHT FT.–IN.	PRICE TANK	PRICE COVER
500	5.0	4.0	$ 38.10	$ 21.50
1000	6.0	5.0	55.20	25.60
1500	6.6	6.6	71.40	25.60
2000	8.0	5.0	78.00	30.00
2500	8.0	7.0	96.90	30.00
2800	8.0	8.0	105.90	30.00
3500	9.0	7.6	117.60	36.00
4000	9.0	9.0	133.80	36.00
4500	10.0	8.0	142.20	40.00
5000	10.0	9.0	154.20	40.00
5500	10.0	10 0	166.20	40.00
6500	10.0	12.0	189.60	40.00
7500	12.0	9 0	222.00	62.00
10000	12.0	12.0	264.00	62.00
15000	14.0	14.0	359.40	81.00
20000	16.0	14.0	463.20	116.50
25000	18.0	14.0	691.20	143.00
30000	18.0	16.0	755.40	143.00
40000	20.0	20.0	1027.80	222.00
50000	22.0	18.0	1082.40	263.50
60000	24.0	18.0	1225.20	384 00
68000	24.0	20.0	1309.80	384.00
80000	24.0	24 0	1576.20	384.00
100000	26.0	26.0	1842.00	456.00

The smaller sizes of tanks are built of $\frac{1}{8}$-inch steel; the intermediate sizes of $\frac{3}{16}$-inch and $\frac{1}{8}$-inch, and the larger sizes of $\frac{1}{4}$-inch and $\frac{3}{16}$-inch.

We supply these Steel Tanks thoroughly knocked down, well finished and punched for rivets, with rivets to put them together. All pieces are plainly marked, and we furnish blue print showing how tanks go together.

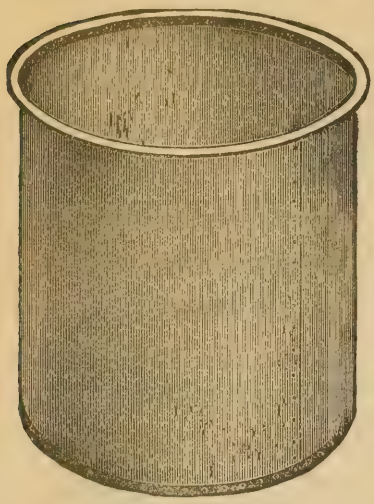
WRITE FOR DISCOUNTS, or let us quote Net Prices, including freight to your city.

We can figure on erecting these tanks, where desired.

WE BUILD THESE TANKS IN ANY OTHER SIZE AND THICKNESS WANTED.

GALVANIZED STEEL TANKS.

Send for Special Galvanized Tank Catalogue Listing All Sizes and Styles.



RELIABLE
Galvanized Round Storage Tanks.

PRICE LIST

No.	Diam. feet	Height feet	Capacity Bbls	Price
1	2	2	1½	$ 6.65
2	2½	2½	2½	7.55
3	3	2	3	8.00
4	3	3	5	10.00
5	3	4	7	11.00
6	4	3	9	12.75
7	4	4	12	16.00
8	4	5	15	19.00
9	5	4	19	21.00
10	5	5	24	23.75
11	6	4	27	25.00
12	6	5	34	30.00
13	6	6	40	35.00
14	6	8	47	43.00
15	8	5	60	47.50
16	8	6	70	52.50
17	8	8	90	65.00
18	10	8	150	85.00
19	10	10	180	95.00
20	12	10	270	128.00
21	12	12	325	150.00
22	14	12	430	225.00
23	14	14	500	250.00
24	16	14	650	290.00
25	16	16	740	325.00

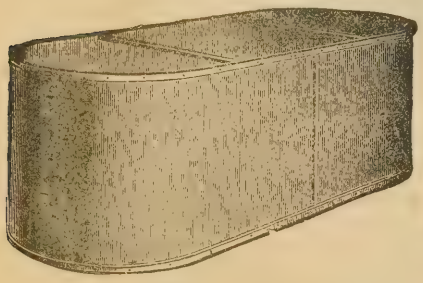
We figure 31½ gallons to the barrel. These capacities are, however, not meant to be absolutely exact, but reasonably close. Measurements all outside.

We can furnish these tanks in any size wanted.

Prices do not include covers. When required they will be supplied at proportionate additional prices.

List prices of all tanks are based on No. 20 Gauge. For tanks 8 feet in diameter we recommend No. 18 Gauge; for tanks 10 feet in diameter, No. 16 Gauge; for tanks 12 feet in diameter, No. 14 Gauge. Larger tanks, No. 12 and No. 10 Gauge. No. 18 Gauge increases the price 20 per cent; No. 16, 40 per cent; No. 14, 60 per cent; No. 12, 100 per cent; No. 10, 150 per cent.

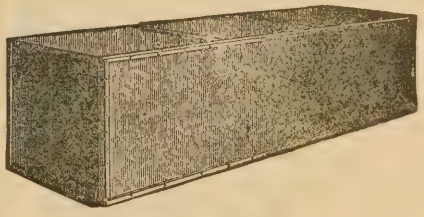
Reliable Galvanized Steel Rectangular Tanks.



Round End.

PRICE LIST.

No.	Wth. feet	Ht. feet	Lgth feet	Cap'ty bbls.	Price
23	2	2	4	3¾	7.00
24	2	2	6	5¾	10.25
25	2	2	8	7	12.25
26	2½	2	8	9	13.00
27	3	2	8	11	14.00
28	4	2	8	14	18.00
29	3	2	10	13½	17.50
30	4	2	10	17½	21.50
31	4	2	16	28	34.00



Square End.

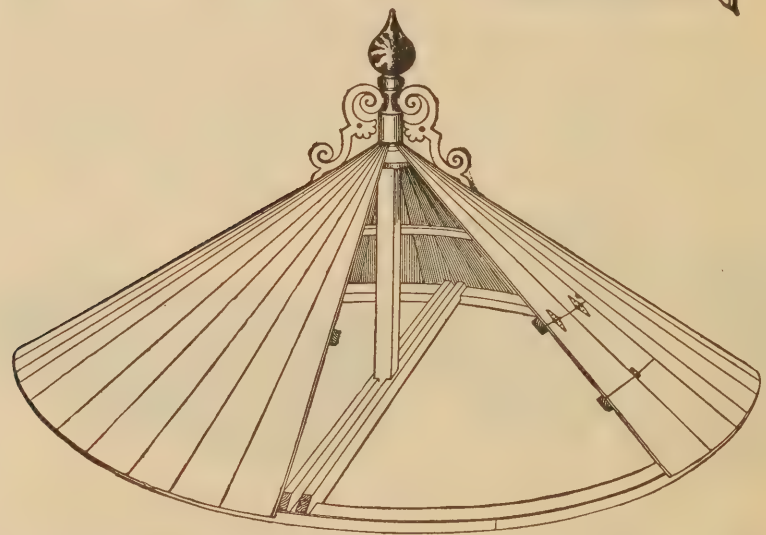
PRICE LIST.

No.	Wth. feet	Ht. feet	Lgth feet	Cap'ty bbls.	Price
33	2	2	4	4	$8.50
34	2	2	6	6	11.00
35	2	2	8	7½	16.00
36	2½	2	8	9½	17.50
37	3	2	8	12	18.75
38	4	2	8	15	23.00
39	3	2	10	14	22.00
40	4	2	10	19	25.75
41	4	2	16	30	33.00

We can furnish these tanks in any size wanted.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

PLAIN CONICAL COVERS.

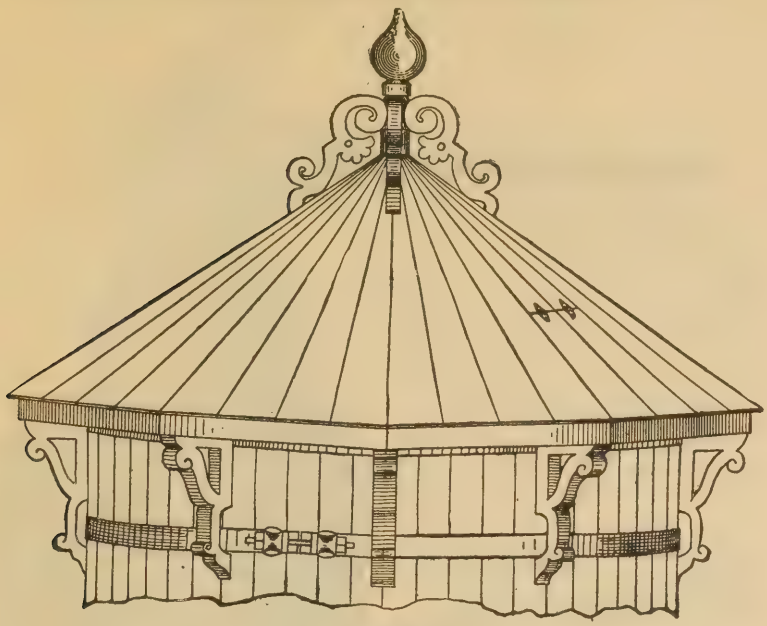


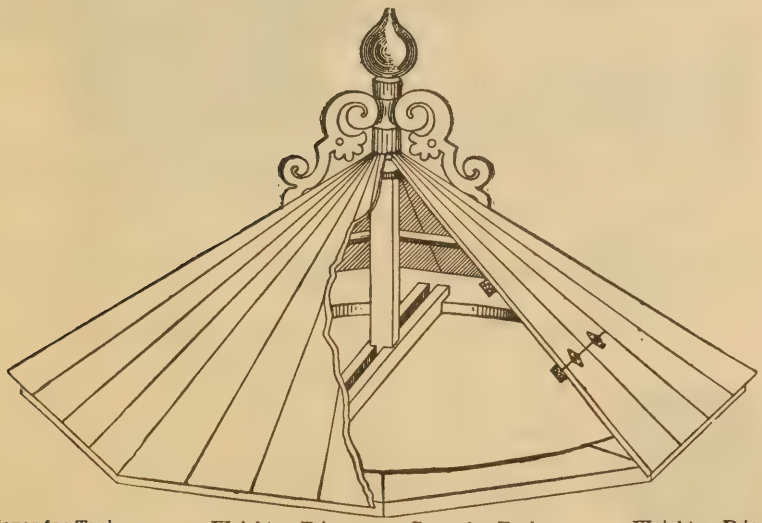
		Weight.	Price.
Cover for Tank, 6 feet 6 inches diameter		200 lbs.	$12 00
Cover " 8 " 0 " "		300 "	17 00
Cover " 10 " 0 " "		450 "	23 00
Cover " 12 " 6 " "		775 "	31 50
Cover " 14 " 0 " "		1050 "	40 00
Cover " 16 " 0 " "		1150 "	50 00
Cover " 18 " 0 " "		1500 "	60 00
Cover " 19 " 6 " "		1800 "	75 00
Cover " 22 " 0 " "		2000 "	95 00
Cover " 24 " 0 " "		2300 "	120 00
Cover " 26 " 0 " "		2800 "	150 00
Cover " 28 " 0 " "		3500 "	185 00
Cover " 30 " 0 " "		4500 "	225 00

We will quote on Shingles for these covers, too, when so desired.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

FANCY CONICAL COVERS.





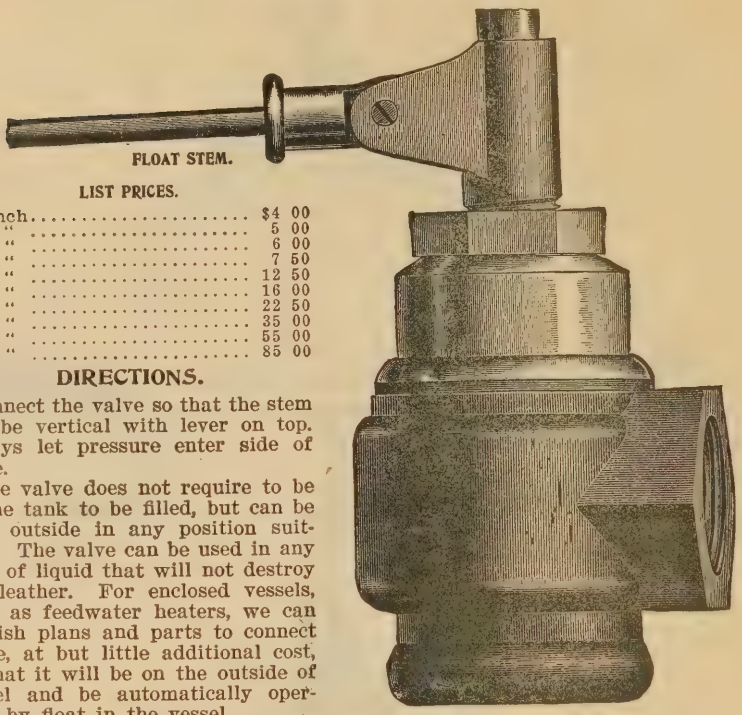
Cover for Tank.	Weight.	Price.	Cover for Tank.	Weight.	Price.
6 ft. 6 in. diam.	390 lbs.	$22 00	19 ft. 6 in. diam.	2400 lbs.	$105 00
8 " 0 "	500 "	27 00	22 " 0 "	2800 "	126 00
10 " 0 "	700 "	36 00	24 " 0 "	3300 "	150 00
12 " 6 "	1050 "	47 00	26 " 0 "	4000 "	180 00
14 " 0 "	1400 "	58 00	28 " 0 "	5000 "	225 00
16 " 0 "	1600 "	72 00	30 " 0 "	6000 "	285 00
18 " 0 "	2000 "	86 00			

Prices include the Fancy Brackets under eaves of Cover.
We will quote on Shingles for these Covers, too, when so desired.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

THE CALDWELL IMPROVED BALANCED FLOAT VALVE.

Send for Circular Giving Full Description.



LIST PRICES.

¾ inch	$4 00
1 "	5 00
1¼ "	6 00
1½ "	7 50
2 "	12 50
2½ "	16 00
3 "	22 50
4 "	35 00
5 "	55 00
6 "	85 00

DIRECTIONS.

Connect the valve so that the stem will be vertical with lever on top. Always let pressure enter side of valve.

The valve does not require to be in the tank to be filled, but can be used outside in any position suitable. The valve can be used in any kind of liquid that will not destroy the leather. For enclosed vessels, such as feedwater heaters, we can furnish plans and parts to connect valve, at but little additional cost, so that it will be on the outside of vessel and be automatically operated by float in the vessel.

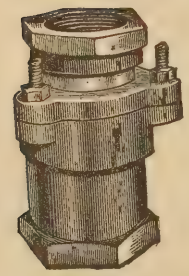
The valve cannot be used where there is very much back pressure. When used in fluids that destroy leather, we supply special metallic packing instead.

PLACES TO USE THIS VALVE.

On any tank or reservoir where the inflow must keep pace with outflow or usage. Also as a relief valve on discharge pipes of pressure pumps.

SEE PRICE LIST ABOVE. **WRITE FOR DISCOUNTS.**

EXPANSION JOINTS.



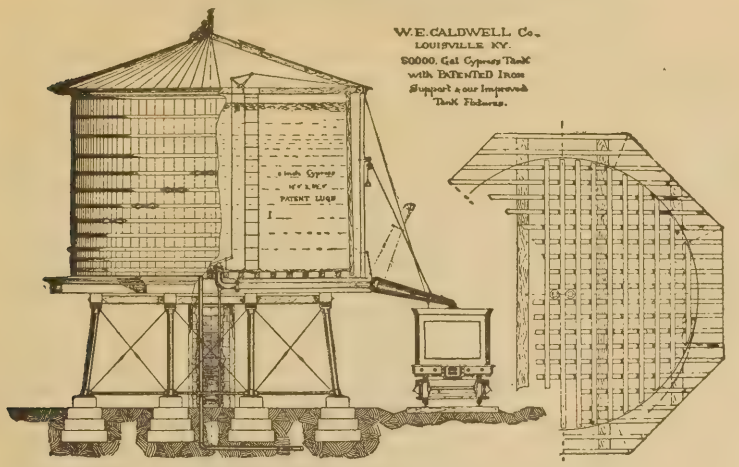
Sizes	1¼	1½				
Brass	$4 00	5 00				
Sizes	2	2½	3	3½	4	5
Iron Body, Brass Sleeve.	$7 00	8 00	10 00	14 00	18 00	38 00
Sizes	6	7	8	9	10	12
Iron Body, Brass Sleeve.	$45 00	70 00	100 00	110 00	160 00	225 00

This is used to take up expansion and contraction in the supply pipe to tank. Without it, tank bottom will be lifted up or pulled down as pipe expands or contracts, and a badly leaking tank will be the result. We make these here and can name a very close price on them.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

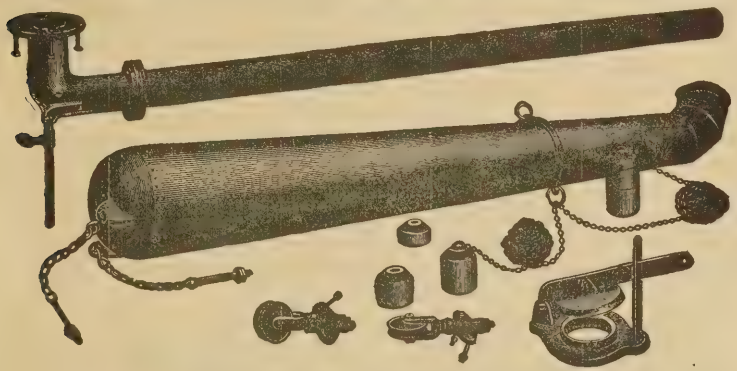
IMPROVED VALVE, OUTLET PIPE, SPOUT, AND FIXTURES.

In use on many of the leading roads of the United States.



Why is Cypress the best wood for Tanks?
Because it does not warp or twist when exposed to the weather.

IMPROVED VALVE, OUTLET PIPE, GALVANIZED SPOUT, AND FIXTURES.



The above cut represents our Improved Tank Fixtures and Tank Outlet Valve, which are strictly frost proof. We furnish these in four sizes—4, 6, 7 and 8 inch.

	4 in.	6 in.	7 in.	8 in.
Fixtures, for 10 to 14 foot diameter Tank	$45 00	$60 00	$70 00	.....
" " 16 " "	55 00	65 00	75 00	$90 00
" " 20 " "	.....	70 00	80 00	95 00
" " 24 " "	.....	75 00	85 00	100 00
" " 30 " "	.....	82 50	92 50	110 00

Tank Outlet Valves (as per cut); also Tank Float Valves.

For 1 inch pipe	$2 25	For 4 inch pipe	$8 00
" 1¼ " "	2 50	" 5 " "	10 00
" 1½ " "	3 00	" 6 " "	12 00
" 2 " "	4 00	" 7 " "	15 00
" 2½ " "	5 00	" 8 " "	18 00
" 3 " "	6 00		

These valves are not threaded unless ordered that way.

Why is Cypress the best wood for Tanks?
Because it has not the knots and defects found in White Pine and other woods.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

FIRE PROTECTION AND WATER SUPPLY FOR MANUFACTURING PLANTS.

The outfit we illustrate on opposite page of catalogue is similar to hundreds which we have furnished for use all over the country, both for independent fire protection systems and in connection with automatic sprinkler equipments. The saving in cost of insurance accomplished by the installation of such an outfit is so great that hundreds of mills and factories are added each year to the thousands already so equipped. This is particularly the case with outfits put in for use in connection with sprinkler systems.

When the sprinkler people guarantee, by putting in their equipment, to secure such a reduction in your premium rates (from the very best companies) as will pay for the investment in four or five years, the reason for this is readily apparent.

We don't sell or install automatic sprinklers, but we manufacture tanks and towers for use in connection with them, one of the iron-clad requirements of the insurance companies being that two sources of supply for the sprinklers must be provided, and one of these is almost invariably an elevated tank. The bottom of this tank must be 20 feet above the highest sprinkler-head in the plant, so that ordinarily a tower of considerable height is necessary to give sufficient elevation to the tank. The tank support or tower is nearly always erected above the ground where space will permit, as this plan has many advantages over that of erecting it on the building. Even where the walls of the building, and the foundations under them, are strong enough to carry the load, very long and heavy beams must generally be used to give a support to one or more legs of the tower, and these, with the heavy iron plates to go under them and the masonry work usually required to level up and prepare the walls, ordinarily makes such an outfit cost nearly as much as one built up from the ground—except where there are T walls on which the tower can be supported. Then we can supply a 3-column or triangular tower to rest directly on the wall, so that the expensive beams mentioned above are not required. But it should not be forgotten that with either style of tower any accident to the building means the collapse of the tank and tank support, and a very serious loss that would be avoided if the tower were erected apart from the building.

Sometimes a brick tower, for the special purpose of providing a support for the tank, forms a part of the building, when, of course, nothing more than the timbers or I beams, on which the tank bottom is to rest, is required. In such cases we furnish either the work complete or the tank only.

We make a specialty of this work in all its different phases, and our knowledge of this subject is so thorough, and our experience in the business so extended, that we can quite often help a customer with valuable suggestions as to the best plan for him to follow. We have testimonial letters from dozens of the leading firms in as many different lines of business, who will testify to the economy of such a system and the thorough reliability of our work, and shall be glad to refer any prospective customer to these firms, though the fact that our outfits are both endorsed and recommended by the principal insurance companies and the leading automatic sprinkler concerns is about as conclusive evidence on this point as could be desired.

State your requirements and write for prices and plans, and remember we build both tanks and towers of either iron or wood.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

OUR ANGLE COLUMN STEEL TOWER AND CYPRESS TANK.

The illustration represents our four-section Angle Column Steel Tower, 51 feet high, with 25,000 gallon Cypress Tank.

Some concerns prefer this style of Tower to our Tubular Column Tower. We can furnish either kind and thoroughly recommend either structure as being of the requisite strength and stability to suit conservative engineering requirements.

The outfit shown above has been in use several years by E. G. Carlton & Sons, Rochdale, Massachusetts, manufacturers of flannels.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

Insurance Requirements.

In asking for prices on Tanks and Towers, prospective purchasers often state that the outfit must conform to the requirements of the Insurance Companies.

It is necessary also to state whether your insurance is to be placed with the Associated Factory Mutual Companies or the Board of Stock Companies, as the former companies now have definite specifications governing such work, whereas the other companies have not prepared any as yet. This is doubtless due to the number of these companies and the fact that they operate independently. The Associated Companies being under one general management can arrange these matters more speedily; however, their specifications were not issued till the first part of 1902.

Prior to this (and the same will still apply to the Board Companies until they do as the Associated Mutual Companies have done) the practice has always been for the Insurance people to state the capacity and the elevation of tank required and leave the details of construction to be settled by the intending user and the manufacturer of the goods. This, of course, means a great lack of uniformity in the kind and quality of articles covered by the different bids for the same equipment, and while the purchaser may, and often does, regard them all as being practically on the same basis, yet, as a matter of fact, no two are apt to be alike in respect to the size of tank, quality of material, weight of hoops, and so on; and one bid may be for an outfit worth 25 per cent more than some other. Under such conditions the man with the lowest price often gets the business when he is not entitled to it. Naturally this has resulted in the installation of a great deal of defective work that was bound to prove an endless annoyance and expense to the user. Moreover, it is at the bottom of most tank accidents that have occurred with considerable frequency in recent years, and which have nearly always been accompanied with heavy damage to property and not infrequently with injuries (sometimes fatal ones) to persons.

These, in fact, are the reasons given by the Factory Mutual Companies for the issuance of their specifications, which were prepared from recommendations and suggestions given them by the manufacturers of such goods, and the knowledge their own engineers already had on the subject, and which are very thorough. They cover every detail of construction, besides specifically regulating the dimensions of tanks of different capacities, the thickness and quality of lumber to be used, the size and number of hoops, etc., and they are such as we can recommend where the very best construction is wanted; though they call for a tank which, besides usually being of different dimensions from the regular tank, is of better quality even than what is known in the trade as a "high grade" tank, and such as we furnish as our "Standard Tank."

From the foregoing it is apparent that we should be informed if the tank wanted is to be built to conform with the new requirements of the Factory Mutual Companies, as otherwise we shall continue to supply our Standard Tank, until the Stock Companies get out a set of specifications of their own.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

OUTFIT FOR AUTOMATIC SPRINKLER SYSTEM

(Installed for the American Locomotive Works, Richmond, Va.)

Tank is of cypress, holding 50,000 gallons, on tubular column steel tower, 100 feet high. This tank and tower were put up after the American Locomotive Co. had used two other outfits of the same design for several years; one being at their works at Schenectady, N. Y., the other at their "Cooke" works at Paterson, N. J.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

20,000 gallon Tank in use by the Attawaugan Co., Dayville, Conn.

TANKS ON BUILDINGS.

In a great many cases where the yard room is limited, Tanks are erected above building on Timbers or I beams across the walls for the tank foundation.

We furnish and erect these jobs complete, including the tank foundation or without, as preferred. However, as we have made a specialty for years of designing these tank foundations to suit special conditions of all kinds, we are almost always able to save a customer considerable by planning and furnishing the supports for the Tanks. This fact is recognized by any number ot the best architects and engineers throughout the country who rely upon us in all such cases.

When asking for bids, send a sketch or plan of the walls where it is proposed to set the Tank.

DUNNAGE OR SUB-JOISTS FOR TANKS.

The weight of Tanks must not come upon the ends of the staves, but must be supported by timbers or chime joists to go under the bottom. Customers are sure of having these timbers fit the Tank if ordered of us.

These are of All-Heart Georgia Yellow Pine, cut to the proper circle to suit diameter of Tank, and are painted one coat.

PRICES ON SUB-JOISTS.

Inside Diam. of Tank.	Weight.	Price.	Inside Diam. of Tank.	Weight.	Price.
4 ft.	155 lbs.	$1 77	14 ft.	668 lbs.	$7 44
5 "	165 "	1 94	16 "	783 "	8 77
6 "	176 "	2 22	18 "	1100 "	12 22
7 "	186 "	2 44	20 "	1272 "	14 16
8 "	200 "	2 88	22 "	1524 "	16 94
10 "	376 "	4 22	24 "	1872 "	20 83
12 "	440 "	4 88	.....	.....	.....

Write for Discounts.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

BELL TOWERS

Where a strong, graceful and durable tower for carrying a heavy bell is wanted, nothing else can be found as well suited to the purpose as our 4-column steel tower here illustrated.

These towers are built on the same design as our Standard Tank Towers, and are of such weight and strength, and so well braced, as to insure thorough stability under all conditions, with due allowance for the strains put upon the structure by the swinging of the bell.

The first cost is not much greater than a first-class wooden structure, and when it is considered that the life of the latter is only a few years at the most, whereas our steel tower will endure for a lifetime and requires no care or expense after once up, except an occasional coat of paint, it is obvious that the steel support is far more economical in the long run. Then with this tower there is never any danger of its falling down or blowing over, which is an assurance it is worth a good deal to have.

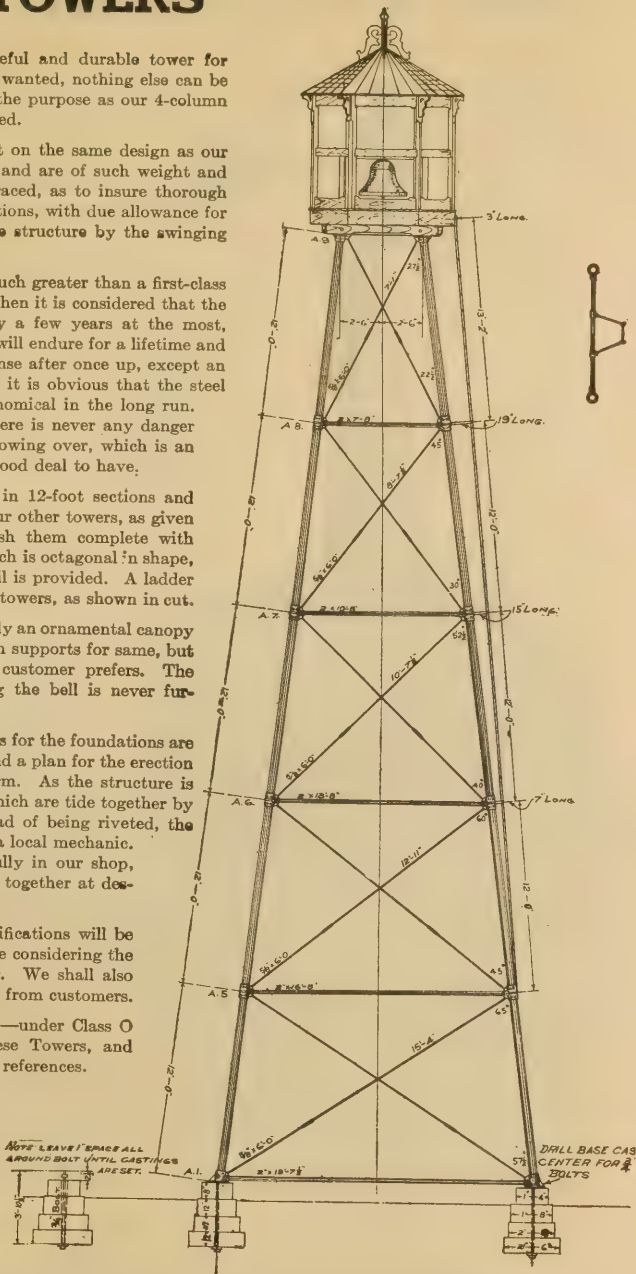
They are constructed in 12-foot sections and of the same heights as our other towers, as given on Page 25. We furnish them complete with platform at the top, which is octagonal in shape, and for which a hand-rail is provided. A ladder is also supplied with all towers, as shown in cut.

We also generally supply an ornamental canopy or cover for the bell, with supports for same, but this can be omitted if customer prefers. The frame work for carrying the bell is never furnished by us.

Plans and specifications for the foundations are sent with every tower, and a plan for the erection of the tower and platform. As the structure is built in short sections, which are tide together by socket connections instead of being riveted, the erection can be done by a local mechanic. We fit everything carefully in our shop, so that it will readily go together at destination.

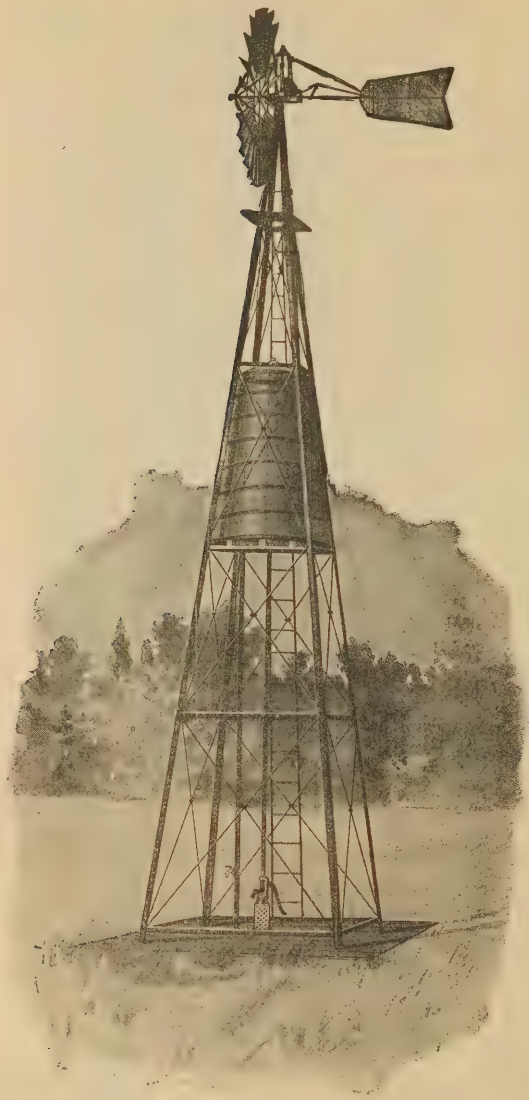
Prices, plans and specifications will be cheerfully sent to any one considering the erection of such a tower. We shall also be glad to give references from customers.

Use prices on Page 27—under Class O —for list prices for these Towers, and write for discount; also references.


3' LONG.
19' LONG.
15' LONG.
7' LONG.
NOTE LEAVE 1" SPACE ALL AROUND BOLT UNTIL CASTINGS ARE SET.
DRILL BASE CASTING IN CENTER FOR 2" ANCHOR BOLTS

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

Water Works for Country Homes



Combined Windmill and Tank Tower

No country home, however humble, is complete without a Caldwell Tank and Tower, which gives full benefit of city water service to house, grounds, stock and for fire protection. First cost small, no expense for repairs. Outfit strong, durable, handsome; stands any storm, lasting a lifetime.

Outfit illustrated is Combined Tank, Tower and Windmill, suitable for house of five or six rooms, a few head of stock and sprinkling lawns. Tank holds up to 1500 gallons.

Where large tank capacity is desired outfit like shown on opposite page is furnished, holding up to 30,000 gallons. Tank can be filled with windmill, as shown, or by any other power desired.

Outfits of 3,000 gallons and less capacity can be easily erected by local men with the plans and instructions we furnish. On larger outfits we can, when desired, estimate upon erecting it. However, these larger outfits can be put up by local carpenter or contractor with our instructions.

Send for Special Catalog "Waterworks Systems for Country Homes" and Book of Photographic Views.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

OUTFITS FOR COUNTRY HOMES.

We supply these tank and tower outfits without a Wind Mill where some other power is to be used for filling the tank.

They are ornamental as well as substantial and durable.

Mr. George R. Metcalf, President of The Erie Malleable Iron Company, is using the outfit shown in the above illustration, at his country home. The Tank is 10 feet in diameter and 10 feet high, 5,500 gallons capacity, with one of our 51-foot Steel Towers supporting it and the galvanized Wind Mill. The Wind Mill has a 10-foot wheel, and is carried on a 20-foot galvanized wind mill Tower, which is securely fastened to the bottom of the Tank. The Mill is connected to a three-way pump.

We erect these outfits complete in any part of the country.

PATENT SECTIONAL, ROUND COLUMN, STEEL TOWERS.

This cut illustrates our 4-column Patent Steel Tower, which we build in sections, suitable to support Tanks of dimensions up to and including 20 feet in diameter and of 40,000 gallons capacity.

These Towers are strong, durable, and attractive in appearance, and cost much less than steel or iron Towers of any other design, and, when **Durability** and **Strength** are considered, they are **MUCH CHEAPER** than any All-Wooden Structures.

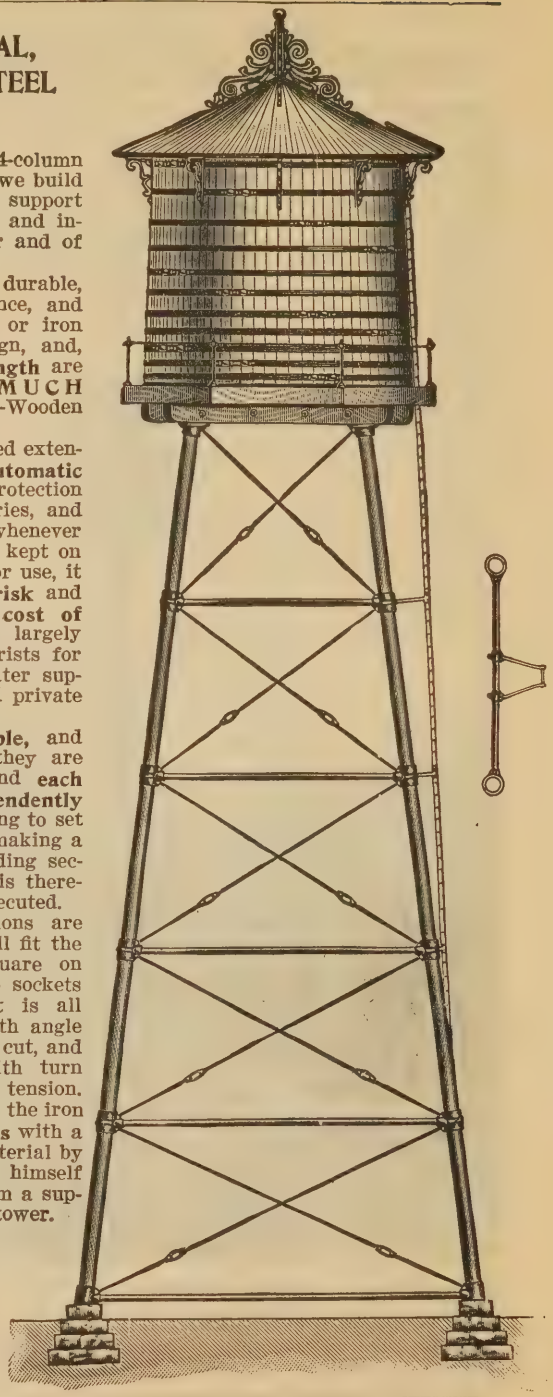
This style of Tower is used extensively in connection with **Automatic Sprinkler Plants** for protection against fire in mills, factories, and other large buildings, as whenever a large storage of water is kept on hand, elevated and ready for use, it **greatly reduces the fire risk** and consequently **lessens the cost of insurance.** They are also largely used by gardeners and florists for irrigation, and also for water supplies for small villages and private grounds.

They are **strong, durable,** and **neat** in **design,** and, as they are built in short sections, and **each section** is **set** up **independently** and **finished** before beginning to set up the **next section,** thus making a scaffolding for each succeeding section, the work of erection is therefore **easily** and **cheaply** executed.

The iron joint connections are made on angles such as will fit the columns when cut off square on each end and inserted into sockets in the iron couplings. It is all strongly bound together with angle brace rods, as shown in the cut, and all rods are provided with turn buckles for securing proper tension.

When desired, we furnish the iron work alone for **these towers** with a detailed plan and bill of material by which the customer may himself supply the timbers that form a support for the tank at top of tower.

See Prices of Towers and Estimated Cost of Foundations on Opposite Page.



This cut represents our 63-foot Steel Tower and 30,000 gallon Cypress Tank.

4-COLUMN PATENT SECTIONAL STEEL TOWERS.

These List Prices are for both Round Column and Structural Steel Towers.

Height in Feet.	Capacities of Tanks that Towers will Support.	Shipping Weight Tower Complete.	Cost of Tower Complete.	Shipping Weight of Frost Proofing Material.	Cost of Frost Proofing for Top and Bottom of Tank.	Estimated Cost of Foundations.
CLASS O.						
15	1,500 gallons and less	1,569 lbs.	$74 25	200 lbs.	$10 25	$15 00
27		2,113 "	114 90			15 00
39		2,713 "	158 50			15 00
51		3,418 "	208 65			15 00
63		4,185 "	262 30			15 00
75		5,000 "	318 25			15 00
CLASS A.						
15	2,000 to 3,000 gallons	2,226 lbs.	$95 75	275 lbs.	$14 65	$20 00
27		2,933 "	145 30			20 00
39		3,714 "	198 60			20 00
51		4,525 "	255 15			20 00
63		5,436 "	315 45			20 00
75		6,361 "	378 25			20 00
CLASS B.						
15	4,000 to 6,000 gallons	3,301 lbs.	$130 80	425 lbs.	$23 20	$25 00
27		4,317 "	198 35			25 00
39		5,419 "	268 15			25 00
51		6,650 "	344 95			25 00
63		7,929 "	425 75			25 00
75		9,263 "	507 80			25 00
CLASS C.						
15	7,000 to 10,000 gallons	4,935 lbs.	$180 75	850 lbs.	$40 25	$32 50
27		6,414 "	272 80			32 50
39		8,000 "	371 10			32 50
51		9,712 "	475 90			32 50
63		11,548 "	586 95			32 50
75		13,507 "	704 80			32 50
CLASS D.						
15	12,000 to 15,000 gallons	6,721 lbs.	$233 80	1,075 lbs.	$51 45	$40 00
27		8,443 "	350 85			40 00
39		10,281 "	475 40			40 00
51		12,238 "	607 20			40 00
63		14,318 "	746 25			40 00
75		16,518 "	902 55			40 00
CLASS E.						
15	15,000 to 20,000 gallons	8,640 lbs.	$297 65	1,350 lbs.	$65 00	$50 00
27		10,828 "	436 45			50 00
39		13,165 "	583 25			50 00
51		15,652 "	738 55			50 00
63		18,296 "	901 85			50 00
75		21,086 "	1,069 40			50 00
CLASS F.						
15	20,000 to 30,000 gallons	10,515 lbs.	$364 25	1,575 lbs.	$79 80	$60 00
27		13,083 "	528 55			60 00
39		15,747 "	701 35			60 00
51		18,677 "	882 15			60 00
63		21,865 "	1,071 20			60 00
75		24,939 "	1,268 50			60 00
CLASS G.						
15	30,000 to 40,000 gallons	16,228 lbs.	$474 15	2,000 lbs.	$98 20	$75 00
27		19,384 "	678 05			75 00
39		22,723 "	891 85			75 00
51		26,243 "	1,115 05			75 00
63		29,949 "	1,348 60			75 00
75		33,850 "	1,592 15			75 00

The heights above given are standard, and are from the ground or grade line to the bottom of the tank. Note the shipping weights given. We guarantee them to be correct, except our Angle Column or Structural Steel Towers weigh a little more.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand Rail and with Iron Ladder, as shown in cut on opposite page.

These Towers take a very low rate of freight. Write for delivered prices.

We also build these Towers in heights of 87 and 100 feet when desired.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

STEEL TANK AND STEEL TOWER.

Used for city water-works at Remsen, Iowa. The tank is of 50,000 gallons capacity on one of our 39-foot tubular column steel towers.

We build steel Tanks as well as wood.

We furnish a great many of our Towers with steel tanks of the type shown in the illustration.

We also build a Hemispherical Bottom Steel Tank with latticed column steel tower, as illustrated on inside front cover page.

Write for prices of either kind.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

TWELVE-COLUMN PATENT SECTIONAL STEEL TOWERS.

These List Prices are for both Round Column and Structural Steel Towers.

CLASS X.

Height.	Capacities of Tanks Towers Will Support.	Weight Complete.	Cost Complete.	Weight Frost Proofing Material.	Cost of Frost Proofing for Top and Bottom of Tank.
27 feet.	40,000 to 50,000 gallons.	20,700 lbs.	$851 25	2,450 lbs.	$110 00
39 "		25,700 "	1,140 40		
51 "		30,825 "	1,435 30		
63 "		36,075 "	1,737 00		
75 "		41,430 "	2,044 65		
87 "		46,925 "	2,359 05		
100 "		52,525 "	2,680 15		

CLASS Y.

27 feet.	50,000 to 65,000 gallons.	26,360 lbs.	$1,090 80	2,950 lbs.	$132 00
39 "		32,760 "	1,462 70		
51 "		39,300 "	1,842 05		
63 "		46,000 "	2,228 85		
75 "		52,800 "	2,623 75		
87 "		59,800 "	3,026 30		
100 "		67,000 "	3,437 80		

CLASS Z.

27 feet.	65,000 to 80,000 gallons.	28,750 lbs.	$1,256 05	2,950 lbs.	$132 00
39 "		36,000 "	1,673 95		
51 "		43,400 "	2,119 75		
63 "		51,000 "	2,572 30		
75 "		58,650 "	3,034 85		
87 "		66,400 "	3,501 40		
100 "		74,500 "	3,980 50		

CLASS W.

27 feet.	80,000 to 100,000 gallons.	37,900 lbs.	$1,762 35	3,500 lbs.	$160 00
39 "		47,000 "	2,340 90		
51 "		56,000 "	2,928 45		
63 "		65,200 "	3,526 00		
75 "		74,600 "	4,133 55		
87 "		84,250 "	4,748 10		
100 "		94,300 "	5,373 20		

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct, except our Angle Column or Structural Steel Towers weigh a little more.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut on opposite page.

These Towers take a very low rate of freight. Write for delivered prices.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

WATER-WORKS OUTFIT.

At Orange City, Iowa.

JOHN E. ORR
ANTHONY TE PASKE
OFFICE AT
ORANGE CITY, IOWA.
SIOUX CENTER, IOWA.

ORR & TE PASKE,

ATTORNEYS-AT-LAW.

MERCANTILE COLLECTIONS,
MORTGAGE FORECLOSURES,
PROBATE MATTERS,
GENERAL PRACTICE.

Orange City, Iowa, Feb. 7th, 1901.

W. E. Caldwell Co., Louisville, Ky.

Dear Sirs:---About four years ago our City purchased from your Company an 87 foot Steel Water Tower and 65,000 gallon Tank which now forms a part of our City water system. On the second day of July, 1900, a cyclone unroofed our City Hall, hurling a large portion of the roof against the Steel Tower striking it at the second section from the bottom. The portion of the roof striking the Tower was smashed into kindling wood, a large timber about ten inches square being broken in two where it struck one of the tubular uprights. Nevertheless the Tower was not moved from its base in the least, nor thrown out of line in any way; the damage to it being but slight. The Tower is strongly constructed, pleasing in appearance, and the people here believe it to be the best one on the market.

Very truly yours.

John E Orr

Mayor.

WATER-WORKS.

The adaptability of the elevated tank system for water works for villages and towns of a population of 25,000 and less, has long been recognized, and for this purpose there is nothing else equal to our **Patent Sectional Steel Tower** with either a Cypress or Steel Tank. Such an outfit makes a handsome appearance, will last indefinitely, and is certain to give the best of satisfaction, as hundreds of our customers will testify.

We make a specialty of furnishing water works jobs, and are pleased to give any information in this connection desired by towns purposing to install complete water works, or outfits for fire protection only.

Write for estimates and cuts.

WE HAVE INSTALLED PLANTS IN

ALABAMA.
Columbiana,
Marion,
Uniontown.

ARKANSAS.
Forrest City,
Warren,
Dermott,
Lonoke.

COLORADO.
Eaton.

CONNECTICUT.
Thompson.

DELAWARE.
Frederica.

FLORIDA.
Bartow,
Clearwater Harbor,
Jasper,
Plant City.

GEORGIA.
Baxley,
Eastman.

ILLINOIS.
Breese,
Ladd,
LaHarpe,
Lebanon,
Loraine,
Mendon,
Morrisonville,
Plymouth,
Waynesville,
Weldon.

INDIANA.
Converse,
Royal Center.

IOWA.
Doon,
Granville,
Kingsley,
Orange City,
Remsen,
Rock Valley,
Sheldon,
Vail,
Waverly,
Clearance.

KANSAS.
Girard,
Liberal.

KENTUCKY.
Adairsville,
Shawnee, Park,
Louisville,
Middlesborough,
Princeton,
Danville.

LOUISIANA.
Bastrop,
Mer Rouge,
Plaquemine,
Oak Ridge.

MAINE.
York Beach.

MARYLAND.
Havre-De-Grace,
Blue Ridge Summit,
Princess Anne,
Mt. Washington.

MICHIGAN.
Ovid,
Sand Beach,
Roscommon,
Township of Hematite.

MISSISSIPPI.
Bolton,
Indianola,
Scranton,
Shuqualak,
Gunnison.

MISSOURI.
Concordia,
Excelsior Springs,
Louisiana.

MINNESOTA.
Virginia,
Adrian,
Bovey,
Northome.

NEW JERSEY.
Allenhurst,
Lindenwold,
North Spring Lake,
Pitman Grove,
Westwood,
Cape May Court House,
Pitman,
Corson's Inlet,
Laurence Harbor

NEW YORK.
Barren Island.
Haines' Falls.

NEBRASKA.
Elmwood.
Rushville.

NEVADA.
Reno.

NORTH CAROLINA.
Aberdeen,
Concord.

OHIO.
Continental,
Kings Mills,
Marice City,
Oakwood.

OKLAHOMA TERRITORY.
El Reno.

PENNSYLVANIA.
Delta,
Ephrata,
Linwood,
Osborn,
Wyalusing,
Beaver Falls,
Rochester.

RHODE ISLAND.
Shawomet Beach.

SOUTH CAROLINA.
Pelzer.

TENNESSEE.
Brownsville,
Collierville,
McKenzie,
Manchester,
Somerville.

TEXAS.
Llano,
Shiner,
Corsicana.
Beeville,

VIRGINIA.
Cape Charles,
Coeburn,
Onancock,
Waynesboro.

WEST VIRGINIA.
Charleston,
Lewisburg,
Ronceverte

WISCONSIN.
Monroe,
Knight, Wis.

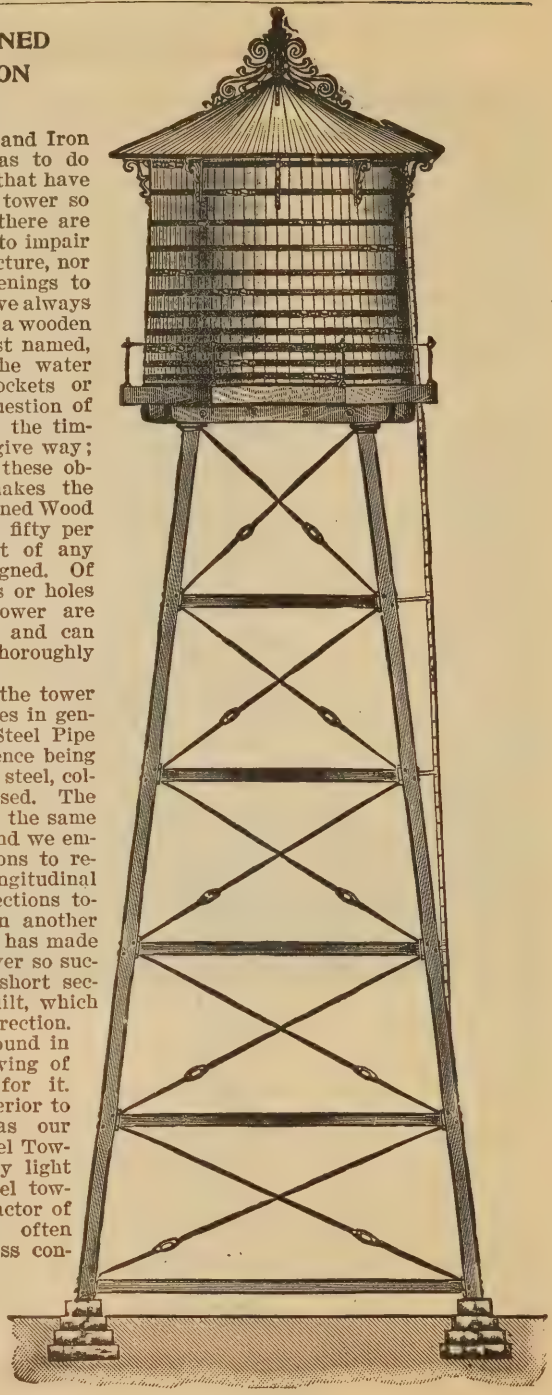
WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

SPECIAL COMBINED WOOD AND IRON TOWERS.

This Combined Wood and Iron Tower is designed so as to do away with the features that have always made a wooden tower so objectionable; that is, there are no mortises and tenons to impair the strength of the structure, nor any brace seats or openings to collect water. These have always been the weak points in a wooden tower, especially the last named, as, of course, where the water could lodge in the sockets or brace seats it was a question of only a short time until the timber would rot out and give way; and an elimination of these objectionable features makes the durability of our Combined Wood and Iron Towers fully fifty per cent. greater than that of any wood tower yet designed. Of course, with no notches or holes the surfaces of the tower are smooth and unbroken, and can therefore be kept thoroughly painted throughout.

It will be seen that the tower is built on the same lines in general as our Sectional Steel Pipe Tower, the only difference being that wooden, instead of steel, columns and struts are used. The sway-bracing is of iron, the same as in our steel tower, and we employ cast-iron connections to receive the struts or longitudinal ties which bind the sections together. We also retain another distinctive feature that has made our Sectional Steel Tower so successful, which is the short sections in which it is built, which minimizes the cost of erection.

The tower will be found in every way fully deserving of the claim we make for it. that it is as much superior to any wooden tower as our Standard Patented Steel Towers are to the ordinary light iron or galvanized steel towers, with scarcely no factor of safety, that are so often palmed off as first-class constructions.



COMBINED WOOD AND IRON TOWERS.

CLASS O.

Height in Feet.	Capacities of Tanks Towers will Support.	Shipping Weight Iron Work.	Cost Iron Work.	Shipping Weight Tower Complete.	Cost of Tower Complete.	Prices of Plans, Specifications and Bills of Material Alone.	Estimated Cost of Foundations.
15	1,500 gallons and less	624 lbs.	$50 01	2,356 lbs.	$80 03	$3 75	$15 00
27		945 "	79 08	3,443 "	125 50	5 75	15 00
39		1,286 "	108 63	4,630 "	171 28	7 75	15 00
51		1,646 "	139 53	5,926 "	220 10	10 00	15 00
63		2 026 "	171 90	7,530 "	275 95	12 50	15 00
75		2,418 "	205 18	9,290 "	335 45	16 00	15 00

CLASS A.

15	2,000 to 3,000 gallons	637 lbs.	$51 56	3,041 lbs.	$96 52	$5 00	$20 00
27		960 "	80 53	4,230 "	141 95	7 50	20 00
39		1,300 "	110 18	5,416 "	182 82	10 00	20 00
51		1,660 "	141 33	6,712 "	236 90	12 50	20 00
63		2,042 "	173 55	8,318 "	292 60	15 00	20 00
75		2,434 "	206 78	10,078 "	352 05	20 00	20 00

CLASS B.

15	4,000 to 6,000 gallons	669 lbs.	$54 41	3,944 lbs.	$115 43	$6 75	$25 00
27		999 "	83 51	5,138 "	161 10	8 75	25 00
39		1,351 "	113 65	6,378 "	208 25	11 00	25 00
51		1,709 "	144 83	7,672 "	257 36	13 50	25 00
63		2,100 "	178 03	9,335 "	314 95	16 50	25 00
75		2,501 "	211 91	11,128 "	375 50	20 00	25 00

CLASS C.

15	7,000 to 10,000 gallons	845 lbs.	$68 79	5,795 lbs.	$161 13	$7 50	$32 50
27		1,288 "	107 01	7,516 "	223 88	10 00	32 50
39		1,750 "	146 06	9,259 "	287 45	12 50	32 50
51		2,230 "	187 04	11,401 "	360 30	15 00	32 50
63		2,755 "	230 89	13,615 "	436 53	22 50	32 50
75		3,410 "	277 01	16,172 "	519 10	25 00	32 50

CLASS D.

15	12,000 to 15,000 gallons	986 lbs.	$80 38	7,449 lbs.	$196 28	$10 00	$40 00
27		1,469 "	122 48	10,088 "	278 73	12 50	40 00
39		1,979 "	166 25	12,666 "	363 15	15 00	40 00
51		2,502 "	210 90	15,307 "	448 38	18 00	40 00
63		3,068 "	258 60	18,210 "	540 86	23 00	40 00
75		3,668 "	309 03	21,450 "	641 90	30 00	40 00

CLASS E.

15	15,000 to 20,000 gallons	1,173 lbs.	$94 85	9,297 lbs.	$247 33	$12 50	$50 00
27		1,748 "	144 08	12,119 "	339 63	15 00	50 00
39		2,347 "	194 83	14,300 "	429 65	17 50	50 00
51		2,994 "	248 90	17,676 "	527 08	22 50	50 00
63		3,684 "	306 13	20,919 "	633 23	28 00	50 00
75		4,392 "	364 53	24,147 "	739 93	35 50	50 00

CLASS F.

15	25,000 to 30,000 gallons	1,417 lbs.	$114 23	12,320 lbs.	$321 65	$17 00	$60 00
27		2,091 "	171 80	15,947 "	435 80	20 00	60 00
39		2,731 "	232 00	19,639 "	553 05	23 00	60 00
51		3,570 "	295 90	23,570 "	677 68	27 50	60 00
63		4,345 "	360 30	27,609 "	804 63	35 00	60 00
75		5,184 "	429 55	32,384 "	949 33	42 50	60 00

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut.

Write for delivered prices.

We also build these Towers in heights of 87 and 100 feet when desired.

SEE CUT ON OPPOSITE PAGE.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

ALL WOOD FRAMED TOWERS.

On the next page we give prices of All-Wood Towers illustrated by this cut.

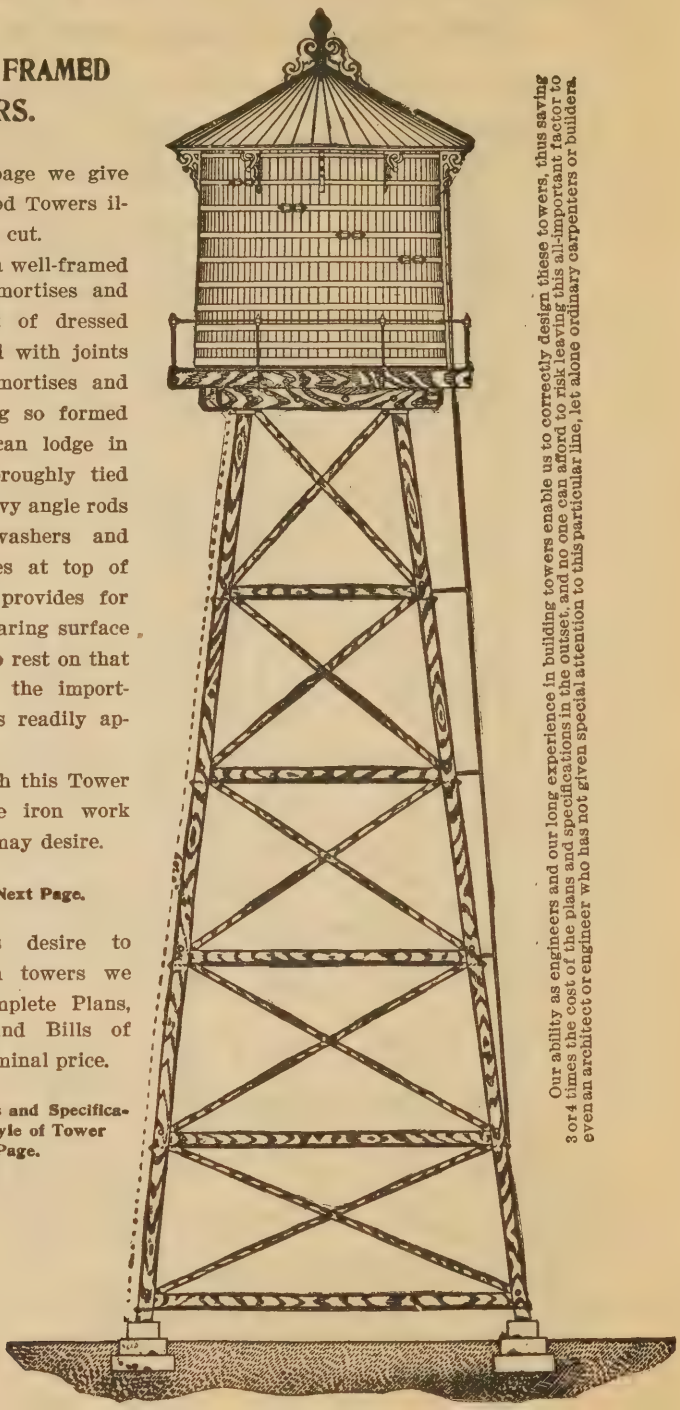
This Tower is a well-framed structure, with mortises and tenons, all built of dressed heart timber and with joints well made, all mortises and brace seats being so formed that no water can lodge in them. It is thoroughly tied together with heavy angle rods and cast-iron washers and heavy cast plates at top of columns, which provides for nearly double bearing surface for the girders to rest on that carry the tank, the importance of which is readily apparent.

We will furnish this Tower complete, or the iron work only, as parties may desire.

See Prices on Next Page.

When parties desire to build their own towers we will furnish complete Plans, Specifications, and Bills of Material at a nominal price.

See "Prices of Plans and Specifications" of this Style of Tower on Next Page.



Our ability as engineers and our long experience in building towers enable us to correctly design these towers, thus saving 3 or 4 times the cost of the plans and specifications in the outset, and no one can afford to risk leaving this all-important factor to even an architect or engineer who has not given special attention to this particular line, let alone ordinary carpenters or builders.

ALL-WOODEN TOWERS.

[See Cut on Preceding Page.]

CLASS O.

Height in Feet.	Capacities of Tanks Towers will Support.	Shipping Weight Iron Work.	Cost Iron Work.	Shipping Weight Tower, Complete.	Cost of Tower Complete.	Prices of Plans, Specifications and Bills of Material Alone.	Estimated Cost of Foundations.
15		389 lbs.	$30 08	2,396 lbs.	$67 72	$3 75	$15 00
27	1,500	490 "	39 16	3,639 "	98 80	5 75	15 00
39	gallons	612 "	49 88	5,223 "	137 30	7 75	15 00
51	and	734 "	60 18	6,941 "	178 07	10 00	15 00
63	less	884 "	73 52	9,303 "	234 17	12 50	15 00
75		1,033 "	86 78	11,344 "	283 20	16 00	15 00

CLASS A.

15		412 lbs.	$32 56	3,244 lbs.	$85 57	$5 00	$20 00
27	2,000	532 "	42 10	4,494 "	116 92	7 50	20 00
39	to	646 "	54 66	6,070 "	157 22	10 00	20 00
51	3,000	772 "	63 98	7,720 "	195 42	12 50	20 00
63	gallons	920 "	77 38	9,889 "	247 65	15 00	20 00
75		1,082 "	91 08	12,206 "	302 67	20 00	20 00

CLASS B.

15		435 lbs.	$35 33	4,147 lbs.	$104 40	$6 75	$25 00
27	4,000	560 "	45 01	5,455 "	137 08	8 75	25 00
39	to	693 "	56 18	7,196 "	179 08	11 00	25 00
51	6,000	823 "	67 48	8,802 "	218 68	13 50	25 00
63	gallons	983 "	83 28	11,049 "	274 50	16 50	25 00
75		1,142 "	95 68	13,513 "	331 05	20 00	25 00

CLASS C.

15		572 lbs.	$44 91	5,945 lbs.	$145 38	$7 50	$32 50
27	7,000	723 "	57 86	7,848 "	191 90	10 00	32 50
39	to	908 "	73 31	10,211 "	249 10	12 50	32 50
51	10,000	1,094 "	90 09	12,749 "	302 70	15 00	32 50
63	gallons	1,331 "	110 89	15,611 "	382 08	22 50	32 50
75		1,561 "	130 41	18,481 "	452 20	25 00	32 50

CLASS D.

15		683 lbs.	$53 56	7,650 lbs.	$179 15	$10 00	$40 00
27	12,000	847 "	67 58	10,310 "	241 00	12 50	40 00
39	to	1,061 "	86 48	13,491 "	316 78	15 00	40 00
51	15,000	1,264 "	104 40	17,222 "	378 33	18 00	40 00
63	gallons	1,520 "	127 38	21,279 "	498 15	23 00	40 00
75		1,811 "	151 78	25,458 "	597 08	30 00	40 00

CLASS E.

15		796 lbs.	$62 28	9,568 lbs.	$227 18	$12 50	$50 00
27	15,000	966 "	76 86	12,162 "	288 20	15 00	50 00
39	to	1,197 "	98 43	15,912 "	377 23	17 50	50 00
51	20,000	1,403 "	116 28	19,358 "	457 18	22 50	50 00
63	gallons	1,768 "	140 18	23,620 "	555 78	28 00	50 00
75		1,925 "	165 26	27,965 "	655 38	35 50	50 00

CLASS F.

15		988 lbs.	$76 96	13,053 lbs.	$306 63	$17 00	$60 00
27	20,000	1,213 "	95 70	17,085 "	398 35	20 00	60 00
39	to	1,532 "	124 70	21,757 "	510 78	23 00	60 00
51	25,000	1,806 "	148 15	26,576 "	621 35	27 50	60 00
63	gallons	2,166 "	180 13	32,057 "	751 53	35 00	60 00
75		2,484 "	206 48	37,590 "	877 75	42 50	60 00

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut on opposite page.

Write for delivered prices.

We also build these Towers in heights of 87 and 100 feet when desired.

SEE CUT ON PRECEDING PAGE.

TESTIMONY OF VALUE.

It is easy enough for a concern to assert and protest that the goods sold by it, are the very best of that particular kind that is or can be produced—that they are so far superior to those of their competitors as to make comparisons odious—to the latter—that they are, in a word, without flaw or defect or blemish of any kind, and such statements are only too common. But they carry very little weight with any one of even average intelligence, as the claims of one concern are worthy of just as much credence as any other.

If, however, the manufacturer is able to show that nearly all of the best and biggest and most widely known firms in the country have adopted and are using his goods, then he is furnishing you the strongest kind of evidence to establish his claims of superiority.

Apropos of which, we present a list of the names of a few of our thoustands of customers, which is significant.

American Agricultural Chemical Co.
American Axe & Tool Co.
American Car & Foundry Co.
American Chemical & Spirit Co.
American Cotton Oil Co.
American Hide & Leather Co.
American Hominy Co.
American Locomotive Co.
American Oak Leather Co.
American Smelting & Refining Co.
American Steel Castings Co.
American Steel & Wire Co.
American Straw Board Co.
American Thread Co.
American Water Works & Guarantee Co.
American Woolen Co.
American Writing Paper Co.
Armstrong Cork Co.
Automobile & Cycle Parts Co.
J. G. Brill Co.
James B. Haggin.
James Warren, President Allis-Chalmers Steel Co.
Canada Sugar Refining Co.
Canadian Pacific Railroad Co.
Carnegie Steel Co.
City of Charleston, S. C.
City of Mobile, Alabama.
Corliss, Coon & Co.
Deering Harvester Co.
Dueber-Hampden Watch Works.
E. & I. Du Pont Co.
Eastman Kodak Co.
Estate of Hiram Sibley.
E. B. Eddy Co.—Canada.
Fairbanks, Morse & Co.
Knabe Piano Co.
Thomas A. Edison Storage Battery Co.
Senator Geo. F. Edmunds.
Florida East Coast Line.
General Fire Extinguisher Co.
Gutta Percha Rubber & Mfg. Co.
The Herreshoff Mfg. Co. (Builders of the Vigilant and other Cup Defenders).
R. M. Hoe & Co.
Holt Mills—Textiles.
Ingersoll-Sergeant Drill Co.
International Paper Co.
Laflin & Rand Powder Co.
Lake Superior Powder Co.
Louisville & Nashville R. R. Co.
Macbeth-Evans Co.—Lamp Chimneys.
The Marsden Co.
McCormick Harvesting Machine Co.
Mississippi Cotton Oil Co.
Monon R. R. Co.
National Biscuit Co.
National & Providence Worsted Mills.
National Starch Mfg. Co.
National Tube Co.
N. Y. Continental Jewell Filtration Co.
New York Mills—Textiles.
Pabst Brewing Co.
Pennsylvania Salt Mfg. Co.
Pfister & Vogel Co.
Pittsburg Plate Glass Co.
Plant System.
Proctor & Gamble Co.
Republic Iron & Steel Co.
R. J. Reynolds Tobacco Co.
Rogers Silver Plate Co.
Wm. B. Scaife & Sons Co.
Simmons Hardware Co.
The Solvay Process Co.
Southern Cotton Oil Co.
Standard Oil Co.
State of Nevada.
State of New York.
State of South Carolina.
State of Tennessee.
Swift & Company.
Wm. R. Trigg Ship Building Works.
United Box, Board & Paper Co.
United Fruit Co.
U. S. Glass Co.
U. S. Lithograph Co.
U. S. Playing Card Co.
United States Government.
Wilkes-Barre Lace Mfg. Co.
Virginia & Carolina Chemical Co.
Westinghouse, Church, Kerr & Co.
Westinghouse Electric & Mfg. Co.
West Indies Chemical Co.

WRITE FOR BOOKLET OF FACSIMILE TESTIMONIAL LETTERS.

WE ALSO BUILD STEEL TANKS OF ALL SIZES AND KINDS

PLANS AND SPECIFICATIONS.

For the benefit of those concerns that prefer to build their own towers and are situated so they can do so advantageously, that is, buy the timbers required and have them framed for less than they would cost with freight added if purchased from us, we would be glad to supply complete working plans and bills of material for either our special Wood and Iron Tower illustrated on page 32 or our All-Wood Tower illustrated on page 34. This will insure the design of the tower being not only correct (which is, of course, of the first and greatest importance), but incomparably superior to the old-style wooden tower with its defective features mentioned in the comparison made elsewhere between our special Wood and Iron tower and the old-style wooden tower.

There is another advantage in using our plans, which is a certainty of having no surplus material in the construction. The ordinary run of carpenters and mechanics have not the technical knowledge necessary to enable them to correctly design a structure of this kind, and, in fact, are apt to lose sight of the great weight contained in a comparatively small volume of water, 5,000 gallons of which, for instance, weigh 40,000 pounds, or more than 20 tons, and 50,000 gallons more than 200 tons. And to be on the safe side they generally get twenty to twenty-five per cent. more material in the tower than is required by the best practice, thereby unnecessarily increasing the cost that much to the purchaser. So the cost of our plans is nearly always many times offset by the cost of material saved when the tower is built from our plans.

Of course, in purchasing the complete tower of us, the customer is assured of getting the best material throughout, and material that is thoroughly finished, all ready to go together, which naturally relieves him of all trouble and worry in this connection, a consideration of no little importance.

We will also furnish the iron work only of these towers where desired, letting the customer supply his own timbers or woodwork. Where we do this we will make no charge for the plans and bills of material.

EXPLANATORY.

Prices are subject to change without notice.

Terms are net cash, 30 days from date of shipment, unless otherwise specified.

Where we erect either tanks or towers, final payment is due upon completion of the work, or within not more than 15 days thereafter at the utmost.

If customers do the erecting, we require payment to be made in the time agreed upon, whether the erection has been completed or not.

Our responsibility for delivery ceases when we secure a signed bill of lading from the Transportation Company for goods received in good order.

Customers must look to the R. R. Co. for any loss due to delay in delivery or damage sustained in transit. We are always glad to file claims for them when desired.

Where we are ordered to duplicate lost or delayed shipments, we do so only on the condition that both original and duplicate shipments are paid for on the basis of our regular terms.

No claims for repairs of any kind, or for the replacing of materials, will be allowed unless our consent is first obtained.

Claims must be made within 15 days after the receipt of the goods.

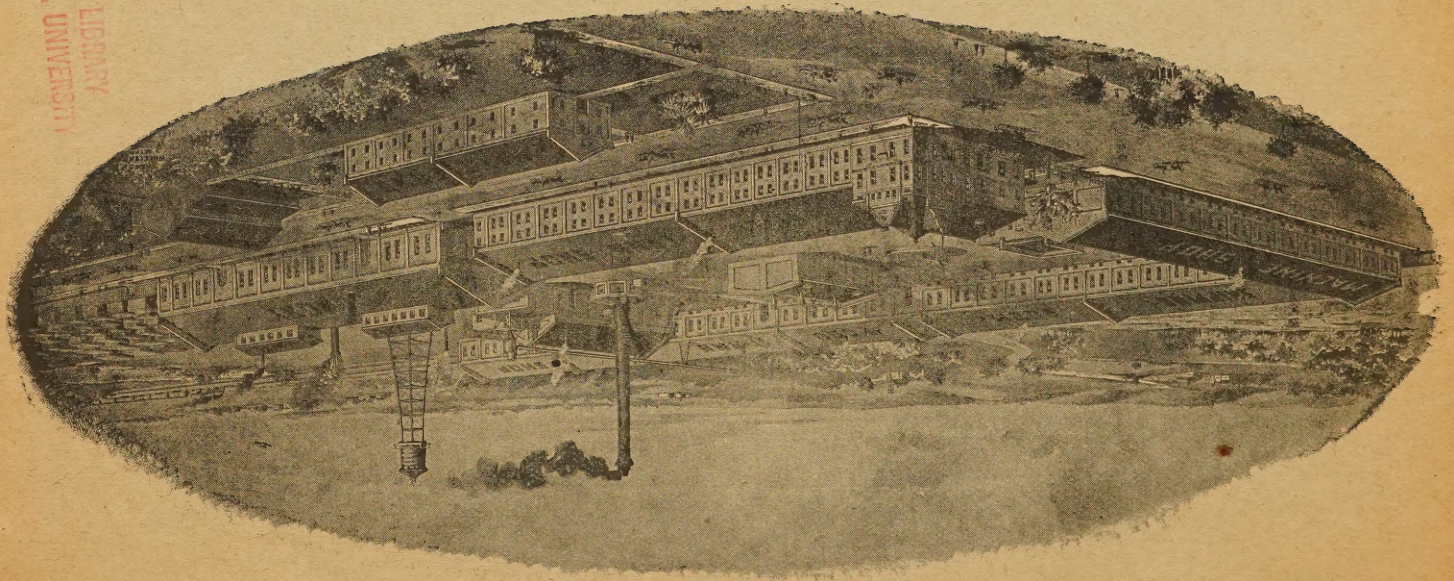
All Galvanized Steel Tanks that we ship set up, are carefully tested to see that they are water-tight before being shipped, and purchasers are cautioned to examine such tanks thoroughly before accepting them from the Railway Company, as we can not allow any charges for resoldering them, or repairing of any other kind.

Wood Tanks are shipped knocked down and well crated; where requested, we send suggestions explaining how erection should be done.

Receiving a tank or tower and setting it up constitutes an acceptance of it.

We cannot accept the return of any goods, as all tanks, towers, etc., are made up especially for each order.

When goods are ordered without details being specified, we will furnish what we think is suitable, and at our regular prevailing prices.

All contracts for the completion of work in a specified time are subject to fires, strikes, delays of Transportation Companies, breakage of machinery, accidents, or other causes beyond our control.

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